

Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

SECTION 1 – IDENTIFICATION		
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A	
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3	
WHMIS, 2015:	(narcotic effects)	
	Aspiration Hazard – Category 1	
Signal Word:	Danger	
Hazard Statements:	Highly flammable liquid and vapor.	
	Causes serious eye irritation.	
	May be fatal if swallowed and enters airways.	
	May cause drowsiness of dizziness.	
Symbols:		
Precautionary	Prevention:	
Statements:	Avoid breathing vapors.	
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.	

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

	OFOTION 4 FIRST AIR MEASURES
	SECTION 4 – FIRST-AID MEASURES
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.
Most Important Symp	ptoms and Effects, Both Acute and Delayed
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).
Indication of Any Imn	mediate Medical Attention and Special Treatment Needed
Treat symptomatically.	

SECTION 5 - FIRE-FIGHTING MEASURES		
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet	
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.	
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.	
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES		
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.	
Protective Equipment and		
Emergency Procedures:		
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled	
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible	
Up:	materials like cloth or paper) and dispose of properly.	

SECTION 7 – HANDLING AND STORAGE		
Handling		
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.	
Storage		
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive	
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.	

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION			
Control parameters			
Chemical Name	CAS Number	Exposure Limits	
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³	
Isopropyl alcohol	67-63-0	ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m ³	
Polyvinyl butyral	63148-65-2	ACGIH: Not available OSHA: Not available NIOSH: Not available	
The selection of personal protective equipment varies, depending upon the conditions of use. Use			
equipment appropriate to your particular use pattern.			
Engineering Controls:	For normal application, special ventilation is not necessary.		
Eye Protection:	Not required under normal use conditions.		
Hand Protection:	None necessary under normal use conditions.		
Skin and Body Protection:	None necessary under normal use conditions.		
Respiratory Protection:	None necessary	under normal use conditions.	

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION			
Routes of Entry:	Skin contact, Inhalation	n, Eye contact, Skin Abso	orption, Ingestion
Acute Toxicity			
Product data:			
Route & Species	<u>Value</u>		
Oral, ATE	>5 g/kg		
Inhalation, ATE	>45 mg/L		
Dermal, ATE	>5 g/kg		
ATE = acute toxicity estimate Ingredient data:			
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg
Polyvinyl butyral	63148-65-2	Not available	Not available

Eye Irritation:	The liquid ink causes serious eye irritation.
Skin Irritation:	The liquid ink may cause skin irritation.
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).
Inhalation Effects:	Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.
Chronic Toxicity	
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)
	ACGIH: Not listed IARC: Not listed NTP: Not listed
	OSHA: Not listed
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)
	Known: Known carcinogen
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.

	SECTION 12 – ECOLOGICAL INFORMATION
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)
Persistence/ Degradability:	Microorganism: Not Available Not Available
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available
Mobility in Soil: Other Adverse Effects:	Not Available Not Available
Other Adverse Ellects.	INUL AVAIIADIC

SECTION 13 – DISPOSAL CONSIDERATIONS	
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.

	SECTION 14 – TRANSPORT INFORMATION			
	Shipping name	UN Number	Hazard Class	Packing Group
DOT (US)	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
TDGR	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9	

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

	NPCA/HMIS	NFPA 704
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022



Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

SECTION 1 – IDENTIFICATION		
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3
WHMIS, 2015:	(narcotic effects)
	Aspiration Hazard – Category 1
Signal Word:	Danger
Hazard Statements:	Highly flammable liquid and vapor.
	Causes serious eye irritation.
	May be fatal if swallowed and enters airways.
	May cause drowsiness of dizziness.
Symbols:	
Precautionary	Prevention:
Statements:	Avoid breathing vapors.
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

	OFOTION 4 FIRST AIR MEASURES
	SECTION 4 – FIRST-AID MEASURES
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.
Most Important Symp	ptoms and Effects, Both Acute and Delayed
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).
Indication of Any Imn	mediate Medical Attention and Special Treatment Needed
Treat symptomatically.	

SECTION 5 - FIRE-FIGHTING MEASURES		
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet	
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.	
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.	
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES		
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.	
Protective Equipment and		
Emergency Procedures:		
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled	
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible	
Up:	materials like cloth or paper) and dispose of properly.	

SECTION 7 – HANDLING AND STORAGE		
Handling		
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.	
Storage		
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive	
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.	

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION			
Control parameters	Control parameters		
Chemical Name	CAS Number Exposure Limits		
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³	
Isopropyl alcohol	67-63-0	ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m ³	
Polyvinyl butyral	63148-65-2	ACGIH: Not available OSHA: Not available NIOSH: Not available	
		nent varies, depending upon the conditions of use. Use	
equipment appropriate to y	our particular us	se pattern.	
Engineering Controls:	For normal application, special ventilation is not necessary.		
Eye Protection:	Not required under normal use conditions.		
Hand Protection:	None necessary under normal use conditions.		
Skin and Body Protection:	None necessary under normal use conditions.		
Respiratory Protection:	None necessary under normal use conditions.		

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION			
Routes of Entry:	Skin contact, Inhalation	n, Eye contact, Skin Abso	orption, Ingestion
Acute Toxicity			
Product data:			
Route & Species	<u>Value</u>		
Oral, ATE	>5 g/kg		
Inhalation, ATE	>45 mg/L		
Dermal, ATE	>5 g/kg		
ATE = acute toxicity estimate Ingredient data:			
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg
Polyvinyl butyral	63148-65-2	Not available	Not available

Eye Irritation:	The liquid ink causes serious eye irritation.		
Skin Irritation:	The liquid ink may cause skin irritation.		
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).		
Inhalation Effects:	Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.		
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.		
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.		
Chronic Toxicity			
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3		
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed		
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3		
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)		
	ACGIH: Not listed IARC: Not listed NTP: Not listed		
	OSHA: Not listed		
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)		
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)		
	Known: Known carcinogen		
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.		
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the		
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.		
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.		
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.		

	SECTION 12 – ECOLOGICAL INFORMATION
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)
Persistence/ Degradability:	Microorganism: Not Available Not Available
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available
Mobility in Soil: Other Adverse Effects:	Not Available Not Available
Other Adverse Ellects.	INUL AVAIIADIC

	SECTION 13 – DISPOSAL CONSIDERATIONS
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.

	SECTION 14 – TRANSPORT INFORMA	ATION		
	Shipping name	UN Number	Hazard Class	Packing Group
DOT (US)	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
TDGR	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9	

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

NPCA/HMIS		NFPA 704
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022



Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

	SECTION 1 – IDENTIFICATION	
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A		
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3		
WHMIS, 2015:	(narcotic effects)		
	Aspiration Hazard – Category 1		
Signal Word:	Danger		
Hazard Statements:	Highly flammable liquid and vapor.		
	Causes serious eye irritation.		
	May be fatal if swallowed and enters airways.		
May cause drowsiness of dizziness.			
Symbols:			
Precautionary	Prevention:		
Statements:	Avoid breathing vapors.		
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.		

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

	OFOTION 4 FIRST AIR MEASURES
	SECTION 4 – FIRST-AID MEASURES
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.
Most Important Symp	ptoms and Effects, Both Acute and Delayed
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).
Indication of Any Imn	mediate Medical Attention and Special Treatment Needed
Treat symptomatically.	

SECTION 5 - FIRE-FIGHTING MEASURES			
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet		
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.		
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.		
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.		

SECTION 6 - ACCIDENTAL RELEASE MEASURES				
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.			
Protective Equipment and				
Emergency Procedures:				
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled			
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible			
Up:	materials like cloth or paper) and dispose of properly.			

SECTION 7 – HANDLING AND STORAGE		
Handling		
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.	
Storage		
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive	
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.	

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION			
Control parameters			
Chemical Name	CAS Number	Exposure Limits	
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³	
Isopropyl alcohol	67-63-0 ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m³		
Polyvinyl butyral	63148-65-2 ACGIH: Not available OSHA: Not available NIOSH: Not available		
The selection of personal protective equipment varies, depending upon the conditions of use. Use			
equipment appropriate to your particular use pattern.			
Engineering Controls:	For normal application, special ventilation is not necessary.		
Eye Protection:	Not required under normal use conditions.		
Hand Protection:	None necessary under normal use conditions.		
Skin and Body Protection:	None necessary under normal use conditions.		
Respiratory Protection:	None necessary under normal use conditions.		

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION				
Routes of Entry:	Skin contact, Inhalation, Eye contact, Skin Absorption, Ingestion			
Acute Toxicity				
Product data:				
Route & Species	<u>Value</u>			
Oral, ATE	>5 g/kg			
Inhalation, ATE	>45 mg/L			
Dermal, ATE	>5 g/kg			
ATE = acute toxicity estimate Ingredient data:				
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>	
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg	
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg	
Polyvinyl butyral	63148-65-2	Not available	Not available	

Eye Irritation:	The liquid ink causes serious eye irritation.		
Skin Irritation:	The liquid ink may cause skin irritation.		
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or		
Inhalation Effects:	pulmonary edema (an accumulation of fluid in the lungs). Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.		
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.		
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.		
Chronic Toxicity			
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3		
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed		
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3		
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)		
	ACGIH: Not listed IARC: Not listed NTP: Not listed		
	OSHA: Not listed		
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)		
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)		
	Known: Known carcinogen		
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.		
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the		
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.		
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.		
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.		

	SECTION 12 – ECOLOGICAL INFORMATION
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)
Persistence/ Degradability:	Microorganism: Not Available Not Available
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available
Mobility in Soil: Other Adverse Effects:	Not Available Not Available
Other Adverse Ellects.	INUL AVAIIADIC

	SECTION 13 – DISPOSAL CONSIDERATIONS
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.

	SECTION 14 – TRANSPORT INFORMA	ATION		
	Shipping name	UN Number	Hazard Class	Packing Group
DOT (US)	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
TDGR	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9	

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

	NPCA/HMIS	NFPA 704
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022



Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

SECTION 1 – IDENTIFICATION		
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3
WHMIS, 2015:	(narcotic effects)
	Aspiration Hazard – Category 1
Signal Word:	Danger
Hazard Statements:	Highly flammable liquid and vapor.
	Causes serious eye irritation.
	May be fatal if swallowed and enters airways.
	May cause drowsiness of dizziness.
Symbols:	
Precautionary	Prevention:
Statements:	Avoid breathing vapors.
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

OFOTION 4 FIRST AIR MEASURES		
SECTION 4 – FIRST-AID MEASURES		
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.	
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.	
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.	
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.	
Most Important Symp	ptoms and Effects, Both Acute and Delayed	
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.	
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.	
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.	
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).	
Indication of Any Imn	Indication of Any Immediate Medical Attention and Special Treatment Needed	
Treat symptomatically.		

SECTION 5 - FIRE-FIGHTING MEASURES		
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet	
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.	
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.	
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES		
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.	
Protective Equipment and		
Emergency Procedures:		
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled	
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible	
Up:	materials like cloth or paper) and dispose of properly.	

	SECTION 7 – HANDLING AND STORAGE		
Handling			
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.		
Storage			
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive		
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.		

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION				
Control parameters				
Chemical Name	CAS Number	Exposure Limits		
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³		
Isopropyl alcohol	67-63-0 ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m³			
Polyvinyl butyral	63148-65-2	ACGIH: Not available OSHA: Not available NIOSH: Not available		
		nent varies, depending upon the conditions of use. Use		
equipment appropriate to your particular use pattern.				
Engineering Controls:	For normal application, special ventilation is not necessary.			
Eye Protection:	Not required under normal use conditions.			
Hand Protection:	None necessary under normal use conditions.			
Skin and Body Protection:	None necessary under normal use conditions.			
Respiratory Protection:	None necessary under normal use conditions.			

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION			
Routes of Entry:	Skin contact, Inhalation	n, Eye contact, Skin Abso	orption, Ingestion
Acute Toxicity			
Product data:			
Route & Species	<u>Value</u>		
Oral, ATE	>5 g/kg		
Inhalation, ATE	>45 mg/L		
Dermal, ATE	>5 g/kg		
ATE = acute toxicity estimate Ingredient data:			
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg
Polyvinyl butyral	63148-65-2	Not available	Not available

Eye Irritation:	The liquid ink causes serious eye irritation.	
Skin Irritation:	The liquid ink may cause skin irritation.	
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which ma include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. Thi may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).	
Inhalation Effects:	Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.	
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.	
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.	
Chronic Toxicity		
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3	
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed	
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3	
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)	
	ACGIH: Not listed IARC: Not listed NTP: Not listed	
	OSHA: Not listed	
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)	
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)	
	Known: Known carcinogen	
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.	
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the	
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.	
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.	
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.	

	SECTION 12 – ECOLOGICAL INFORMATION				
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)				
Persistence/ Degradability:	Microorganism: Not Available Not Available				
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available				
Mobility in Soil: Other Adverse Effects:	Not Available Not Available				
Other Adverse Ellects.	INUL AVAIIADIC				

SECTION 13 – DISPOSAL CONSIDERATIONS				
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.			

SECTION 14 – TRANSPORT INFORMATION					
	Shipping name	UN Number	Hazard Class	Packing Group	
DOT (US)	For domestic transport by road, rail and cargo:				
	Proper Shipping Name: Printing Ink	UN1210	3	II	
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity				
TDGR	For domestic transport by road, rail and cargo:				
	Proper Shipping Name: Printing Ink	UN1210	3	II	
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity				
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II	
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9		

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

	NPCA/HMIS	NFPA 704
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022



Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

SECTION 1 – IDENTIFICATION		
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A	
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3	
WHMIS, 2015:	(narcotic effects)	
	Aspiration Hazard – Category 1	
Signal Word:	Danger	
Hazard Statements:	Highly flammable liquid and vapor.	
	Causes serious eye irritation.	
	May be fatal if swallowed and enters airways.	
	May cause drowsiness of dizziness.	
Symbols:		
Precautionary	Prevention:	
Statements:	Avoid breathing vapors.	
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.	

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

	OFOTION 4 FIRST AIR MEASURES
	SECTION 4 – FIRST-AID MEASURES
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.
Most Important Symp	ptoms and Effects, Both Acute and Delayed
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).
Indication of Any Imn	mediate Medical Attention and Special Treatment Needed
Treat symptomatically.	

SECTION 5 - FIRE-FIGHTING MEASURES		
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet	
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.	
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.	
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES		
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.	
Protective Equipment and		
Emergency Procedures:		
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled	
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible	
Up:	materials like cloth or paper) and dispose of properly.	

SECTION 7 – HANDLING AND STORAGE		
Handling		
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.	
Storage		
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive	
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.	

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION			
Control parameters			
Chemical Name	CAS Number	Exposure Limits	
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³	
Isopropyl alcohol	67-63-0	ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m ³	
Polyvinyl butyral	63148-65-2	ACGIH: Not available OSHA: Not available NIOSH: Not available	
The selection of personal protective equipment varies, depending upon the conditions of use. Use			
equipment appropriate to your particular use pattern.			
Engineering Controls:	For normal application, special ventilation is not necessary.		
Eye Protection:	Not required under normal use conditions.		
Hand Protection:	None necessary under normal use conditions.		
Skin and Body Protection:	None necessary under normal use conditions.		
Respiratory Protection:	None necessary	under normal use conditions.	

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION			
Routes of Entry:	Skin contact, Inhalation	n, Eye contact, Skin Abso	orption, Ingestion
Acute Toxicity			
Product data:			
Route & Species	<u>Value</u>		
Oral, ATE	>5 g/kg		
Inhalation, ATE	>45 mg/L		
Dermal, ATE	>5 g/kg		
ATE = acute toxicity estimate Ingredient data:			
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg
Polyvinyl butyral	63148-65-2	Not available	Not available

Eye Irritation:	The liquid ink causes serious eye irritation.
Skin Irritation:	The liquid ink may cause skin irritation.
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).
Inhalation Effects:	Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.
Chronic Toxicity	
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)
	ACGIH: Not listed IARC: Not listed NTP: Not listed
	OSHA: Not listed
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)
	Known: Known carcinogen
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.

	SECTION 12 – ECOLOGICAL INFORMATION
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)
Persistence/ Degradability:	Microorganism: Not Available Not Available
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available
Mobility in Soil: Other Adverse Effects:	Not Available Not Available
Other Adverse Ellects.	INUL AVAIIADIC

SECTION 13 – DISPOSAL CONSIDERATIONS	
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.

	SECTION 14 – TRANSPORT INFORMATION			
	Shipping name	UN Number	Hazard Class	Packing Group
DOT (US)	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
TDGR	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9	

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

	NPCA/HMIS	NFPA 704
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022



Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

SECTION 1 – IDENTIFICATION		
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3
WHMIS, 2015:	(narcotic effects)
	Aspiration Hazard – Category 1
Signal Word:	Danger
Hazard Statements:	Highly flammable liquid and vapor.
	Causes serious eye irritation.
	May be fatal if swallowed and enters airways.
	May cause drowsiness of dizziness.
Symbols:	
Precautionary	Prevention:
Statements:	Avoid breathing vapors.
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

	OFOTION 4 FIRST AIR MEASURES
	SECTION 4 – FIRST-AID MEASURES
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.
Most Important Symp	ptoms and Effects, Both Acute and Delayed
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).
Indication of Any Imn	mediate Medical Attention and Special Treatment Needed
Treat symptomatically.	

SECTION 5 - FIRE-FIGHTING MEASURES		
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet	
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.	
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.	
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES		
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.	
Protective Equipment and		
Emergency Procedures:		
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled	
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible	
Up:	materials like cloth or paper) and dispose of properly.	

SECTION 7 – HANDLING AND STORAGE		
Handling		
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.	
Storage		
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive	
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.	

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION			
Control parameters	Control parameters		
Chemical Name	CAS Number Exposure Limits		
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³	
Isopropyl alcohol	67-63-0	ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m ³	
Polyvinyl butyral	63148-65-2	ACGIH: Not available OSHA: Not available NIOSH: Not available	
		nent varies, depending upon the conditions of use. Use	
equipment appropriate to y	our particular us	se pattern.	
Engineering Controls:	For normal application, special ventilation is not necessary.		
Eye Protection:	Not required under normal use conditions.		
Hand Protection:	None necessary under normal use conditions.		
Skin and Body Protection:	None necessary under normal use conditions.		
Respiratory Protection:	None necessary under normal use conditions.		

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION			
Routes of Entry:	Skin contact, Inhalation	n, Eye contact, Skin Abso	orption, Ingestion
Acute Toxicity			
Product data:			
Route & Species	<u>Value</u>		
Oral, ATE	>5 g/kg		
Inhalation, ATE	>45 mg/L		
Dermal, ATE	>5 g/kg		
ATE = acute toxicity estimate Ingredient data:			
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg
Polyvinyl butyral	63148-65-2	Not available	Not available

Eye Irritation:	The liquid ink causes serious eye irritation.		
Skin Irritation:	The liquid ink may cause skin irritation.		
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).		
Inhalation Effects:	Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.		
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.		
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.		
Chronic Toxicity			
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3		
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed		
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3		
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)		
	ACGIH: Not listed IARC: Not listed NTP: Not listed		
	OSHA: Not listed		
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)		
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)		
	Known: Known carcinogen		
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.		
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the		
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.		
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.		
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.		

	SECTION 12 – ECOLOGICAL INFORMATION
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)
Persistence/ Degradability:	Microorganism: Not Available Not Available
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available
Mobility in Soil: Other Adverse Effects:	Not Available Not Available
Other Adverse Ellects.	INUL AVAIIADIC

	SECTION 13 – DISPOSAL CONSIDERATIONS
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.

	SECTION 14 – TRANSPORT INFORMA	ATION		
	Shipping name	UN Number	Hazard Class	Packing Group
DOT (US)	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
TDGR	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9	

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

NPCA/HMIS		NFPA 704
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022



Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

	SECTION 1 – IDENTIFICATION	
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A		
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3		
WHMIS, 2015:	(narcotic effects)		
	Aspiration Hazard – Category 1		
Signal Word:	Danger		
Hazard Statements:	Highly flammable liquid and vapor.		
	Causes serious eye irritation.		
	May be fatal if swallowed and enters airways.		
May cause drowsiness of dizziness.			
Symbols:			
Precautionary	Prevention:		
Statements:	Avoid breathing vapors.		
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.		

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

	OFOTION 4 FIRST AIR MEASURES
	SECTION 4 – FIRST-AID MEASURES
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.
Most Important Symp	ptoms and Effects, Both Acute and Delayed
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).
Indication of Any Imn	mediate Medical Attention and Special Treatment Needed
Treat symptomatically.	

SECTION 5 - FIRE-FIGHTING MEASURES			
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet		
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.		
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.		
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.		

SECTION 6 - ACCIDENTAL RELEASE MEASURES				
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.			
Protective Equipment and				
Emergency Procedures:				
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled			
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible			
Up:	materials like cloth or paper) and dispose of properly.			

SECTION 7 – HANDLING AND STORAGE		
Handling		
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.	
Storage		
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive	
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.	

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION			
Control parameters			
Chemical Name	CAS Number	Exposure Limits	
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³	
Isopropyl alcohol	67-63-0 ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m³		
Polyvinyl butyral	63148-65-2 ACGIH: Not available OSHA: Not available NIOSH: Not available		
The selection of personal protective equipment varies, depending upon the conditions of use. Use			
equipment appropriate to your particular use pattern.			
Engineering Controls:	For normal application, special ventilation is not necessary.		
Eye Protection:	Not required under normal use conditions.		
Hand Protection:	None necessary under normal use conditions.		
Skin and Body Protection:	None necessary under normal use conditions.		
Respiratory Protection:	None necessary under normal use conditions.		

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION				
Routes of Entry:	Skin contact, Inhalation, Eye contact, Skin Absorption, Ingestion			
Acute Toxicity				
Product data:				
Route & Species	<u>Value</u>			
Oral, ATE	>5 g/kg			
Inhalation, ATE	>45 mg/L			
Dermal, ATE	>5 g/kg			
ATE = acute toxicity estimate Ingredient data:				
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>	
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg	
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg	
Polyvinyl butyral	63148-65-2	Not available	Not available	

Eye Irritation:	The liquid ink causes serious eye irritation.		
Skin Irritation:	The liquid ink may cause skin irritation.		
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or		
Inhalation Effects:	pulmonary edema (an accumulation of fluid in the lungs). Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.		
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.		
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.		
Chronic Toxicity			
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3		
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed		
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3		
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)		
	ACGIH: Not listed IARC: Not listed NTP: Not listed		
	OSHA: Not listed		
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)		
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)		
	Known: Known carcinogen		
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.		
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the		
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.		
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.		
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.		

	SECTION 12 – ECOLOGICAL INFORMATION
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)
Persistence/ Degradability:	Microorganism: Not Available Not Available
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available
Mobility in Soil: Other Adverse Effects:	Not Available Not Available
Other Adverse Ellects.	INUL AVAIIADIC

	SECTION 13 – DISPOSAL CONSIDERATIONS
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.

	SECTION 14 – TRANSPORT INFORMA	ATION		
	Shipping name	UN Number	Hazard Class	Packing Group
DOT (US)	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
TDGR	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9	

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

	NPCA/HMIS	NFPA 704
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022



Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

SECTION 1 – IDENTIFICATION		
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3
WHMIS, 2015:	(narcotic effects)
	Aspiration Hazard – Category 1
Signal Word:	Danger
Hazard Statements:	Highly flammable liquid and vapor.
	Causes serious eye irritation.
	May be fatal if swallowed and enters airways.
	May cause drowsiness of dizziness.
Symbols:	
Precautionary	Prevention:
Statements:	Avoid breathing vapors.
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

OFOTION 4 FIRST AIR MEASURES		
SECTION 4 – FIRST-AID MEASURES		
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.	
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.	
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.	
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.	
Most Important Symp	ptoms and Effects, Both Acute and Delayed	
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.	
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.	
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.	
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).	
Indication of Any Imn	Indication of Any Immediate Medical Attention and Special Treatment Needed	
Treat symptomatically.		

SECTION 5 - FIRE-FIGHTING MEASURES		
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet	
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.	
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.	
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES		
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.	
Protective Equipment and		
Emergency Procedures:		
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled	
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible	
Up:	materials like cloth or paper) and dispose of properly.	

	SECTION 7 – HANDLING AND STORAGE		
Handling			
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.		
Storage			
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive		
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.		

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION				
Control parameters				
Chemical Name	CAS Number	Exposure Limits		
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³		
Isopropyl alcohol	67-63-0 ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m³			
Polyvinyl butyral	63148-65-2	ACGIH: Not available OSHA: Not available NIOSH: Not available		
		nent varies, depending upon the conditions of use. Use		
equipment appropriate to your particular use pattern.				
Engineering Controls:	For normal application, special ventilation is not necessary.			
Eye Protection:	Not required under normal use conditions.			
Hand Protection:	None necessary under normal use conditions.			
Skin and Body Protection:	None necessary under normal use conditions.			
Respiratory Protection:	None necessary under normal use conditions.			

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION			
Routes of Entry:	Skin contact, Inhalation	n, Eye contact, Skin Abso	orption, Ingestion
Acute Toxicity			
Product data:			
Route & Species	<u>Value</u>		
Oral, ATE	>5 g/kg		
Inhalation, ATE	>45 mg/L		
Dermal, ATE	>5 g/kg		
ATE = acute toxicity estimate Ingredient data:			
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg
Polyvinyl butyral	63148-65-2	Not available	Not available

Eye Irritation:	The liquid ink causes serious eye irritation.	
Skin Irritation:	The liquid ink may cause skin irritation.	
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which ma include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. Thi may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).	
Inhalation Effects:	Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.	
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.	
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.	
Chronic Toxicity		
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3	
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed	
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3	
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)	
	ACGIH: Not listed IARC: Not listed NTP: Not listed	
	OSHA: Not listed	
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)	
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)	
	Known: Known carcinogen	
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.	
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the	
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.	
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.	
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.	

	SECTION 12 – ECOLOGICAL INFORMATION				
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)				
Persistence/ Degradability:	Microorganism: Not Available Not Available				
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available				
Mobility in Soil: Other Adverse Effects:	Not Available Not Available				
Other Adverse Ellects.	INUL AVAIIADIC				

SECTION 13 – DISPOSAL CONSIDERATIONS				
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.			

SECTION 14 – TRANSPORT INFORMATION					
	Shipping name	UN Number	Hazard Class	Packing Group	
DOT (US)	For domestic transport by road, rail and cargo:				
	Proper Shipping Name: Printing Ink	UN1210	3	II	
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity				
TDGR	For domestic transport by road, rail and cargo:				
	Proper Shipping Name: Printing Ink	UN1210	3	II	
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity				
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II	
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9		

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

	NPCA/HMIS	NFPA 704
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022



SAFETY DATA SHEET

Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

SECTION 1 – IDENTIFICATION		
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

This product is a consumer product and is not subject to the requirements of OSHA HCS/HazCom 2012 nor Health Canada Hazardous Products Regulations (WHMIS 2015). Warnings in this Section are for the bulk inks and applicable only in workplace environments and not for the product itself under normal use and conditions. Nonetheless, this SDS is provided for the information of product users.

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A	
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3	
WHMIS, 2015:	(narcotic effects)	
	Aspiration Hazard – Category 1	
Signal Word:	Danger	
Hazard Statements:	Highly flammable liquid and vapor.	
	Causes serious eye irritation.	
	May be fatal if swallowed and enters airways.	
	May cause drowsiness of dizziness.	
Symbols:		
Precautionary	Prevention:	
Statements:	Avoid breathing vapors.	
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.	

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

	OFOTION 4 FIRST AIR MEASURES
	SECTION 4 – FIRST-AID MEASURES
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.
Most Important Symp	ptoms and Effects, Both Acute and Delayed
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).
Indication of Any Imn	mediate Medical Attention and Special Treatment Needed
Treat symptomatically.	

SECTION 5 - FIRE-FIGHTING MEASURES		
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet	
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.	
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.	
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES		
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.	
Protective Equipment and		
Emergency Procedures:		
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled	
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible	
Up:	materials like cloth or paper) and dispose of properly.	

SECTION 7 – HANDLING AND STORAGE		
Handling		
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.	
Storage		
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive	
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.	

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION			
Control parameters			
Chemical Name	CAS Number	Exposure Limits	
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³	
Isopropyl alcohol	67-63-0	ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m ³	
Polyvinyl butyral	63148-65-2	ACGIH: Not available OSHA: Not available NIOSH: Not available	
The selection of personal protective equipment varies, depending upon the conditions of use. Use			
equipment appropriate to your particular use pattern.			
Engineering Controls:	For normal application, special ventilation is not necessary.		
Eye Protection:	Not required under normal use conditions.		
Hand Protection:	None necessary under normal use conditions.		
Skin and Body Protection:	None necessary under normal use conditions.		
Respiratory Protection:	None necessary	under normal use conditions.	

ACGIH = American Conference of Governmental Industrial Hygienists

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

STEL = Short-Term Exposure Limit

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION			
Routes of Entry:	Skin contact, Inhalation	n, Eye contact, Skin Abso	orption, Ingestion
Acute Toxicity			
Product data:			
Route & Species	<u>Value</u>		
Oral, ATE	>5 g/kg		
Inhalation, ATE	>45 mg/L		
Dermal, ATE	>5 g/kg		
ATE = acute toxicity estimate Ingredient data:			
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg
Polyvinyl butyral	63148-65-2	Not available	Not available

Eye Irritation:	The liquid ink causes serious eye irritation.
Skin Irritation:	The liquid ink may cause skin irritation.
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).
Inhalation Effects:	Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.
Chronic Toxicity	
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)
	ACGIH: Not listed IARC: Not listed NTP: Not listed
	OSHA: Not listed
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)
	Known: Known carcinogen
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.

	SECTION 12 – ECOLOGICAL INFORMATION
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)
Persistence/ Degradability:	Microorganism: Not Available Not Available
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available
Mobility in Soil: Other Adverse Effects:	Not Available Not Available
Other Adverse Ellects.	INUL AVAIIADIC

SECTION 13 – DISPOSAL CONSIDERATIONS	
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.

	SECTION 14 – TRANSPORT INFORMATION			
	Shipping name	UN Number	Hazard Class	Packing Group
DOT (US)	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
TDGR	For domestic transport by road, rail and cargo:			
	Proper Shipping Name: Printing Ink	UN1210	3	II
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity			
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9	

DOT = Department of Transport

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

	NPCA/HMIS	NFPA 704
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

All the ingredients in the product are listed on the US Toxic Substances Control Act (TSCA) inventory. Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product

does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022

Disclaimer: The information given is based on data currently available to us and is believed to be correct. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for injury or damage from the use of the products described herein.



SAFETY DATA SHEET

Product Name: BIC Intensity Advanced Dry

Erase Markers

Date Prepared: April 28, 2023 Version 6

SECTION 1 – IDENTIFICATION		
Product Name:	BIC Intensity Advanced Dry Erase Markers	
Synonyms:	WPS-BIC-012	
Product Use:	Marking instrument	
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)	
SDS Contact:	Product Safety	
Telephone number:	(203) 783-2412	

SECTION 2 – HAZARD	(S)	IDENTIFICATION
product and is not subject to	46.0	requirements of OCI

This product is a consumer product and is not subject to the requirements of OSHA HCS/HazCom 2012 nor Health Canada Hazardous Products Regulations (WHMIS 2015). Warnings in this Section are for the bulk inks and applicable only in workplace environments and not for the product itself under normal use and conditions. Nonetheless, this SDS is provided for the information of product users.

Classification in accordance with 29 CFR	Flammable Liquid – Category 2 Serious Eye Damage / Eye Irritation – Category 2A
§ 1910.1200 and	Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3
WHMIS, 2015:	(narcotic effects)
	Aspiration Hazard – Category 1
Signal Word:	Danger
Hazard Statements:	Highly flammable liquid and vapor.
	Causes serious eye irritation.
	May be fatal if swallowed and enters airways.
	May cause drowsiness of dizziness.
Symbols:	
Precautionary	Prevention:
Statements:	Avoid breathing vapors.
	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.

Otherwise Classified – Physical Hazards: Any Hazards Not None		Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection. Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Storage: Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Disposal: Dispose of contents/container in accordance with local / regional / national / international regulations. 17% of the mixture consists of ingredients of unknown acute oral, dermal, and inhalation toxicity.
Any Hazards Not None	Otherwise Classified –	None None
Health Hazards:	Any Hazards Not Otherwise Classified –	None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Preparation:	Preparation:		
CAS No.	Chemical Name	% by Weight	
64-17-5	Ethanol	50-100	
67-63-0	Isopropyl alcohol	10-40	
63148-65-2	Polyvinyl butyral	1-5	

	OFOTION 4 FIRST AIR MEASURES
	SECTION 4 – FIRST-AID MEASURES
che and	ush contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until emical is removed, while holding the eyelid(s) open. Remove contact lenses, if present d easy to do. Continue rinsing. If irritation persists, obtain medical advice.
Rei	rritation does occur, flush with lukewarm gently flowing water until chemical is removed. emove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the oduct is highly flammable. If irritation occurs, obtain medical advice.
you res	nhaled, remove person to fresh air and keep comfortable for breathing. Call a doctor if u feel unwell. If breathing has stopped, trained personnel should begin artificial spiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) mediately. Immediately transport victim to an emergency care facility.
if s	swallowed, immediately call a doctor. DO NOT INDUCE VOMITING. Aspiration hazard swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of piration. Transport victim to an emergency care facility if necessary.
Most Important Symp	ptoms and Effects, Both Acute and Delayed
after Inhalation: (C	eliberately concentrating and inhaling this product can lead to Central Nervous System CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled ecidentally.
Symptoms/Injuries Shafter Skin Contact:	nort-term exposure is expected to cause only slight irritation, if any.
Symptoms/Injuries Se after Eye Contact:	erious eye irritation may occur if product comes in contact with eyes.
after Ingestion: we se of (in	gestion of this product may cause CNS depression, symptoms of which may include; eakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of evere overexposure; coma and death. Ingestion of this product may lead to aspiration the liquid, especially if vomiting occurs. This may result in chemical pneumonitis of lammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the ngs).
Indication of Any Imn	mediate Medical Attention and Special Treatment Needed
Treat symptomatically.	

SECTION 5 - FIRE-FIGHTING MEASURES		
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical, Water stream or jet	
Conditions of Flammability:	HIGHLY FLAMMABLE (Liquid ink only). Can release vapors that form flammable mixtures at or above the flash point.	
Hazardous Combustion Products:	Carbon oxides, irritating gases and vapors may be formed on combustion.	
Special Protective Equipment and Procedures for Fire- fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES		
Personal Precautions,	Highly flammable (Liquid ink only). Ventilate area.	
Protective Equipment and		
Emergency Procedures:		
Methods and Materials for	Avoid contaminating sewers, streams, rivers and other watercourses with spilled	
Containment and Cleaning	material. Absorb with inert absorbent material (do not use combustible	
Up:	materials like cloth or paper) and dispose of properly.	

SECTION 7 – HANDLING AND STORAGE		
Handling		
Handling:	Highly flammable (Liquid ink only). Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition. Keep container tightly closed. Wash skin thoroughly after handling.	
Storage		
Conditions for Safe	Store in cool, dry, well-ventilated area. Store away from incompatible and reactive	
	materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.	

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION			
Control parameters	Control parameters		
Chemical Name	CAS Number Exposure Limits		
Ethanol	64-17-5	ACGIH: (STEL) 1000 ppm OSHA: (PEL-TWA) 1000 ppm; 1900 mg/m ³ NIOSH: (IDLH) 3300 ppm 10% LEL NIOSH: (REL-TWA) 1000 ppm; 1900 mg/m ³	
Isopropyl alcohol	67-63-0	ACGIH: (STEL) 400 ppm ACGIH: (TWA) 200 ppm OSHA: (PEL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (IDLH) 2000 ppm 10% LEL NIOISH: (REL-TWA) 400 ppm; 980 mg/m ³ NIOSH: (REL-STEL) 500 ppm; 1225 mg/m ³	
Polyvinyl butyral	63148-65-2	ACGIH: Not available OSHA: Not available NIOSH: Not available	
		nent varies, depending upon the conditions of use. Use	
equipment appropriate to y	our particular us	se pattern.	
Engineering Controls:	For normal application, special ventilation is not necessary.		
Eye Protection:	Not required under normal use conditions.		
Hand Protection:	None necessary under normal use conditions.		
Skin and Body Protection:	None necessary under normal use conditions.		
Respiratory Protection:	None necessary under normal use conditions.		

ACGIH = American Conference of Governmental Industrial Hygienists

IDLH = Immediately Dangerous to Life or Health concentrations

LEL = Lower Explosive Limit

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limit

REL = Recommended Exposure Limit

TWA = Time-Weighted Average

STEL = Short-Term Exposure Limit

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Physical State:	Liquid Ink reservoir contained in a solid container	
Odor:	Alcohol	
Odor Threshold:	Not Available	
pH:	Not Available	
Melting Point/Freezing Point:	Not Available	

Initial Boiling Point and Boiling Range:	78°C (172.4°F) (Liquid ink only)
Flash point:	13°C (55.4°F) [Closed cup] (Liquid ink only)
Evaporation Rate:	Not Available
Flammability:	Not Available
Flammability Limits in Air Lower (LFL): Upper (UFL):	Not Available Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Density/Specific Gravity:	0.82-0.88 @ 20°C (68°F) (Liquid ink only)
Solubility in Water:	Miscible with water (Liquid ink only)
n-Octanol/ Water Partition Coefficient:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	6.0-9.0 mPa*s/25°C (77°F) (Liquid ink only)

SECTION 10 – STABILITY AND REACTIVITY		
Reactivity:	This product is stable under the normal conditions of use.	
Chemical Stability:	Stable	
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.	
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.	
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.	
Hazardous Decomposition Products:	Not expected to undergo decomposition.	

SECTION 11 – TOXICOLOGICAL INFORMATION			
Routes of Entry:	Skin contact, Inhalation	n, Eye contact, Skin Abso	orption, Ingestion
Acute Toxicity			
Product data:			
Route & Species	<u>Value</u>		
Oral, ATE	>5 g/kg		
Inhalation, ATE	>45 mg/L		
Dermal, ATE	>5 g/kg		
ATE = acute toxicity estimate Ingredient data:			
<u>Chemical</u>	CAS#	Route & Species	<u>Value</u>
Ethanol	64-17-5	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	7,060 mg/kg 60.9 mg/L (4 hr) 15,800 mg/kg
Isopropyl alcohol	67-63-0	Oral, rat, LD ₅₀ Inhalation, rat, LC ₅₀ Dermal, rabbit, LD ₅₀	4,396 mg/mg 41.7 mg/L (4 hr) 12,800 mg/kg
Polyvinyl butyral	63148-65-2	Not available	Not available

Eye Irritation:	The liquid ink causes serious eye irritation.		
Skin Irritation:	The liquid ink may cause skin irritation.		
Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).		
Inhalation Effects:	Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.		
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.		
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.		
Chronic Toxicity			
Carcinogenicity:	Not classified. Ethanol (64-17-5) ACGIH: A3		
	IARC: Group 1 (Ethanol in alcoholic beverages only) NTP: Known (Alcoholic beverage consumption only) OSHA: Not listed		
	Isopropyl alcohol (67-63-0) ACGIH: A4 IARC: Group 3		
	NTP: Not listed OSHA: Not listed Polyvinyl butyral (63148-65-2)		
	ACGIH: Not listed IARC: Not listed NTP: Not listed		
	OSHA: Not listed		
	ACGIH (American Conference of Governmental Industrial Hygienists) A3: Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer)		
	Group 1: Carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)		
	Known: Known carcinogen		
Mutagenicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.		
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the		
	available data and the known hazards of the components, this product is not expected to be a reproductive toxin.		
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.		
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.		

	SECTION 12 – ECOLOGICAL INFORMATION
Ecotoxicity:	Ethanol (64-17-5) Algae: Not Available Daphnia: LC ₅₀ 48 hr = 9,268-14,221 mg/L (Daphnia magna)
Persistence/ Degradability:	Microorganism: Not Available Not Available
Bioaccumulation:	Ethanol (64-17-5) Log Pow = -0.32 Isopropyl alcohol (67-63-0) Log Pow = 0.05 Polyvinyl butyral (63148-65-2) Not Available
Mobility in Soil: Other Adverse Effects:	Not Available Not Available
Other Adverse Ellects.	INUL AVAIIADIC

	SECTION 13 – DISPOSAL CONSIDERATIONS
Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.

SECTION 14 – TRANSPORT INFORMATION					
	Shipping name	UN Number	Hazard Class	Packing Group	
DOT (US)	For domestic transport by road, rail and cargo:				
	Proper Shipping Name: Printing Ink	UN1210	3	II	
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity				
TDGR	For domestic transport by road, rail and cargo:				
	Proper Shipping Name: Printing Ink	UN1210	3	II	
	Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity				
IMDG/IMO	Proper shipping name: Printing Ink EmS No. F-E, S-D Note: Will ship as limited quantity	UN1210	3	II	
IATA	Proper shipping name: Consumer Commodity Note: Will ship as limited quantity	ID8000	9		

DOT = Department of Transport

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 - REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

Hazard Ratings

	NFPA 704	
Health:	[-]2	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System NFPA – National Fire Protection Association

US Federal Regulations

All the ingredients in the product are listed on the US Toxic Substances Control Act (TSCA) inventory. Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product

does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard: No Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the SARA (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-know Regulations

Ethanol: New Jersey, Massachusetts, Pennsylvania

Isopropyl alcohol: New Jersey, Massachusetts, Pennsylvania, Rhode Island Carbon black: New Jersey, Massachusetts, Pennsylvania, Illinois, Rhode Island

Canada - Inventory

All the ingredients in the product are listed on the Canadian Domestic Substances List (DSL) inventory.

Canadian National Pollutant Release Inventory (NPRI)

Isopropyl alcohol (67-63-0) - 15-40%

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labelling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

SECTION 16 – OTHER INFORMATION

Latest Revision Date: April 28, 2023 Supersedes Date: July 28, 2022

Disclaimer: The information given is based on data currently available to us and is believed to be correct. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for injury or damage from the use of the products described herein.