

MATERIAL SAFETY DATA SHEET

Page 1 of 8

6516B

MSDS #: IC3552-0101

Product Code:

Product Name: Canon Ink Tank CLI-251 Y

Product Code: 6516B

Manufacturer: Canon Inc.

Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Relevant Identified Uses: Ink for Ink Jet Printer

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ink tank containing yellow liquid ink with slight odor.

Emergency Overview:

SECTION 2 HAZARDS IDENTIFICATION

Not classified as dangerous.

EU Classification under 1999/45/EC:

Product Identifier:

Details of Supplier of Safety Data Sheet:

Supplier:

Address:

Telephone Number:

E-mail Address:

Emergency Telephone Number:

US Regulatory Status

Not classified as hazardous.

Not required

US Label Elements

Signal Word:

Hazard Warning: Not required

Hazardous Component: Not required

Safety Advice: Not required

under FHSA:

Symbol & Indication: Not required

R-Phrase: Not required

Dangerous Component: Not required

EU Label Elements under 1999/45/EC:

S-Phrase: Not required

Not required

Applicable Label Elements in accordance with Annex V to 1999/45/EC:

Other Hazards:

None

under FHSA:

Date of Issue: April 20, 2012 Revision Date:

Canon USA Inc.,

One Canon Park, Melville, NY 11747, USA

1-800-OK-CANON

24 Hr. Emergency CHEMTREC # 1-800-424-9300

MATERIAL SAFETY DATA SHEET

Page 2 of 8

6516B

MSDS #: IC3552-0101

Product Code:

Carcinogen(s):

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) No 1272/2008.

Ingredient(s):

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name/

Generic Name

CAS #/

EC #

Concentration/

Concentration

Range (%)

EU Classification according to

67/548/EEC

EU Classification according to

(EC) No 1272/2008

Note to

Other

Symbol/ Hazards*₂

Indication of Danger

R-Phrase*₁ Hazard Class/

Category Code

Hazard

Statement*₁

Glycerin

Ethylene urea

Thiadiazole Azo dye

Glycol

Water

56-81-5 /

200-289-5

120-93-4 /

204-436-4

Confidential

Confidential

7732-18-5 /

231-791-2

5 - 10

5 - 10

1 - 5

10 - 15

60 - 80

None

Xi / Irritant

Xi / Irritant

None

None

None

R36

R36

None

None

None

Eye Irrit. 2

Eye Irrit. 2

None

None

None

H319

H319

None

None

(1)

*1 Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

*2 The following substance(s) is (are) marked with (1), (2) and/or (3)

(1) Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)

(2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006

(3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

Substance or Mixture: Mixture

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

6516B

MSDS #: IC3552-0101

Product Code:

CO₂, water, foam or dry chemicals

Suitable Extinguishing Media:

None

Special Hazards:

CO, CO₂, NO_x and SO_x

Hazardous Combustion Products:

Advice for Fire-fighters:

Avoid contact with skin, eyes and clothing.

Personal Precautions, Protective Equipment and Emergency Procedures:

Do not release to sewer, surface water or ground water.

Environmental Precautions:

Wipe off with wet cloth or paper.

Methods and Material for Containment and Cleaning Up:

Extinguishing Media:

Unsuitable Extinguishing Media:

None

SECTION 6 ACCIDENTAL RELEASE MEASURES

SECTION 5 FIRE FIGHTING MEASURES

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Inhalation:

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

Ingestion:

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

Eye:

Indication of Any Immediate Medical Attention and Special Treatment Needed:

First Aid Measures:

SECTION 4 FIRST AID MEASURES

None

Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

May cause minimal irritation. (See SECTION 11)

Eye:

Neither irritation nor sensitization is expected. (See SECTION 11)

Skin:

No adverse effects are expected under intended use.

Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Inhalation:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Ingestion:

Not identified

Chronic Effects:

Most Important Symptoms and Effects, both Acute and Delayed:

None

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 4 of 8

6516B

MSDS #: IC3552-0101

Product Code:

Use with adequate ventilation.

Avoid contact with skin, eyes and clothing.
In case of contact, wash out the contaminated area immediately.

Precautions for Safe Handling:

Keep in a cool and dry place.
Protect from sunlight.
Keep out of the reach of children.

Conditions for Safe Storage, Including Any Incompatibilities:

Control Parameters:

Engineering Controls: No special ventilation equipment is needed under intended use of this product.

Respiratory Protection: Required Not Required

Eye/Face Protection: Required Not Required
Required Not Required

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection:

Individual Protection Measures:

Ink for Ink Jet Printer.
For more information, please refer to the instruction of this product.

Specific End Uses:

SECTION 7 HANDLING AND STORAGE

USA

OSHA PEL

ACGIH TLV EU OEL

Product (Ink) Not established Not established Not established

Glycerin mist:

TWA 15 mg/m³ (Total
dust)

TWA 5 mg/m³
(Respirable fraction)

Glycerin mist:

TWA 10 mg/m³

Glycerin Not established

Exposure Controls:

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 5 of 8

6516B

MSDS #: IC3552-0101

Product Code:

Odor: Slight odor

pH: 7 - 8

Not available

Initial Boiling Point and

Boiling Range (°C):

Melting Point/Freezing Point (°C): Not available

Vapor Pressure : Not available

Vapor Density : Not available

Relative Density: 1.0 - 1.1

Water Solubility : Miscible

Fat Solubility : Not available

Partition Coefficient (n-Octanol/Water):

Evaporation Rate: Not available

Chemical Stability: Stable Unstable

Conditions to Avoid: None

Incompatible Materials: Acids, bases, oxidizing materials and reducing agents

Hazardous Decomposition Products: CO, CO₂, NO_x and SO_x

Possibility of Hazardous Reactions:

Appearance:

Flash Point(°C): None (Estimate)

Explosive Properties: None (Estimate)

Oxidizing Properties: None (Estimate)

Yellow liquid

Flammability: Neither flammable nor combustible.

Decomposition Temperature(°C): Not available

Not available

Upper/Lower Flammable or

Explosive Limits:

Auto-ignition Temperature (°C): Not available

Not available

Viscosity (mPa s): 1 - 5

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10 STABILITY AND REACTIVITY

Information on Basic Physical and Chemical Properties:

Other Information: Not available

Reactivity: None

None

Date of Issue:April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 6 of 8

6516B

MSDS #: IC3552-0101

Product Code:

Not available

Inhalation:

Not available

Ingestion:

Non-irritant (rabbit) (Estimate)

OECD Guidelines No. 404 (2002), (EC) No 440/2008 Method B4

Skin:

Minimal irritant (rabbit) (Estimate)

OECD Guidelines No. 405 (2002), (EC) No 440/2008 Method B5

Eye:

Non-sensitizer (mouse) (Estimate)

OECD Guidelines No. 429 (2010), (EC) No 440/2008 Method B42

Sensitization:

Ames test: Negative (*S. typhimurium* & *E. Coli*)

Mutagenicity:

Not available

Toxicity for Reproduction:

Not available

Carcinogenicity:

Not available

Other Information:

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Information on Toxicological Effects:

Corrosivity/Irritation:

Skin:

Repeated Dose Toxicity:

Not available

Date of Issue:April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 7 of 8

6516B

MSDS #: IC3552-0101

Product Code:

Mobility in Soil: Not available

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available

Toxicity: Not available

Other Adverse Effects: Not available

Disposal should be subject to federal, state and local laws.

Waste Treatment Methods:

None

SARA Title III §313:

None

California Proposition 65:

SECTION 13 DISPOSAL CONSIDERATIONS

< USA Information >

Chemical Name Weight %

Chemical Name Weight %

None

Safety, Health and Environmental Regulations/Legislation:

Restriction: Not regulated

(EC) No 1005/2009: Not regulated

(EC) No 689/2008: Not regulated

< EU Information >

Others:

UN Number: None

UN Proper Shipping Name: None

Transport Hazard Class: None

Special Precautions for User: None

Packing Group: None

Environmental Hazards:

SECTION 15 REGULATORY INFORMATION

WHMIS Controlled Product: Not applicable (Manufactured article)

Statement of Hazardous Nature: This product will not be shipped to Australia.

< Canada Information >

< Australia Information >

SECTION 12 ECOLOGICAL INFORMATION

SECTION 14 TRANSPORT INFORMATION

Results of PBT and vPvB

Assessment:

No results that the component(s) of this ink meet(s) the PBT or vPvB criteria under Regulation (EC) No 1907/2006.

Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.

(EC) No 1907/2006: Authorisation:Not regulated

(EC) No 850/2004: Not regulated

Chemical Safety Assessment under (EC) No 1907/2006: Not required

Date of Issue:April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 8 of 8

6516B

MSDS #: IC3552-0101

Product Code:

Literature References:

<EU R-phrase according to 67/548/EEC>

R36: Irritating to eyes.

<EU Hazard statement according to (EC) No 1272/2008>

H319: Causes serious eye irritation.

<Term explanation>

Estimate: Estimate based on data of similar product or the ingredient(s) of this product.

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as

of the date hereof. The company/manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

SECTION 16 OTHER INFORMATION

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- EU Directive 1999/45/EC
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substance [NOHSC:1008]
- OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)
- FHSA: Federal Hazardous Substances Act (USA)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- IARC: International Agency for Research on Cancer
- NTP: National Toxicology Program (USA)
- OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)
- ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists
- EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- WHMIS: Workplace Hazardous Materials Information System
- NOHSC: National Occupational Health and Safety Commission

Abbreviations:

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 1 of 8

6497B

MSDS #: IC3539-0101

Product Code:

Product Name: Canon Ink Tank PGI-250 PGBK

Product Code: 6497B

Manufacturer: Canon Inc.

Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Relevant Identified Uses: Ink for Ink Jet Printer

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ink tank containing black liquid ink with slight odor.

Emergency Overview:

SECTION 2 HAZARDS IDENTIFICATION

Not classified as dangerous.

EU Classification under 1999/45/EC:

Product Identifier:

Details of Supplier of Safety Data Sheet:

Supplier:

Address:

Telephone Number:

E-mail Address:

Emergency Telephone Number:

US Regulatory Status

Not classified as hazardous.

Not required

US Label Elements

Signal Word:

Hazard Warning: Not required

Hazardous Component:Not required

Safety Advice: Not required

under FHSA:

Symbol & Indication: Not required

R-Phrase: Not required

Dangerous Component: Not required

EU Label Elements under 1999/45/EC:

S-Phrase: Not required

Not required

Applicable Label Elements in accordance with Annex V to 1999/45/EC:

Other Hazards:

None

under FHSA:

Date of Issue:April 20, 2012 Revision Date:

Canon USA Inc.,

One Canon Park, Melville, NY 11747, USA

1-800-OK-CANON

24 Hr. Emergency CHEMTREC # 1-800-424-9300

MATERIAL SAFETY DATA SHEET

Page 2 of 8

6497B

MSDS #: IC3539-0101

Product Code:

Carcinogen(s):

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) No 1272/2008.

Ingredient(s):

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name/

Generic Name

CAS #/

EC #

Concentration/

Concentration

Range (%)

EU Classification according to

67/548/EEC

EU Classification according to

(EC) No 1272/2008

Note to

Other

Symbol/ Hazards*₂

Indication of Danger

R-Phrase*₁ Hazard Class/

Category Code

Hazard

Statement*₁

Glycerin

Glycol

Lactam

Water

56-81-5 /

200-289-5

Confidential

Confidential

7732-18-5 /

SECTION 4 FIRST AID MEASURES

None

Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

May cause minimal irritation. (See SECTION 11)

Eye:

Neither irritation nor sensitization is expected. (See SECTION 11)

Skin:

No adverse effects are expected under intended use.

Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Inhalation:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Ingestion:

Not identified

Chronic Effects:

Most Important Symptoms and Effects, both Acute and Delayed:

None

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 4 of 8

6497B

MSDS #: IC3539-0101

Product Code:

Use with adequate ventilation.

Avoid contact with skin, eyes and clothing.

In case of contact, wash out the contaminated area immediately.

Precautions for Safe Handling:

Keep in a cool and dry place.

Protect from sunlight.

Keep out of the reach of children.

Conditions for Safe Storage, Including Any Incompatibilities:

Control Parameters:

Engineering Controls: No special ventilation equipment is needed under intended use of this product.

Respiratory Protection: Required Not Required

Eye/Face Protection: Required Not Required

Required Not Required

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection:

Individual Protection Measures:

Ink for Ink Jet Printer.

For more information, please refer to the instruction of this product.

Specific End Uses:

SECTION 7 HANDLING AND STORAGE

USA

OSHA PEL

ACGIH TLV EU OEL

Product (Ink) Not established Not established Not established

Glycerin mist:

TWA 15 mg/m³ (Total dust)

TWA 5 mg/m³

(Respirable fraction)

Glycerin mist:

TWA 10 mg/m³

Glycerin Not established

Exposure Controls:

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 5 of 8

6497B

MSDS #: IC3539-0101

Product Code:

Odor: Slight odor

pH: 7 - 9

Not available

Initial Boiling Point and

Boiling Range (°C):

Melting Point/Freezing Point (°C): Not available

Vapor Pressure : Not available

Vapor Density : Not available

Relative Density: 1.0 - 1.1

Water Solubility : Miscible

Fat Solubility : Not available

Partition Coefficient (n-Octanol/Water):

Evaporation Rate: Not available

Chemical Stability: Stable Unstable

Conditions to Avoid: None

Incompatible Materials: Acids, bases, oxidizing materials and reducing agents

Hazardous Decomposition Products: CO, CO₂, NO_x, SO_x, PO_x and Ammonia

Possibility of Hazardous Reactions:

Appearance:

Flash Point(°C): None (Estimate)

Explosive Properties: None (Estimate)

Oxidizing Properties: None (Estimate)

Black liquid

Flammability: Neither flammable nor combustible.

Decomposition Temperature(°C): Not available

Not available

Upper/Lower Flammable or

Explosive Limits:

Auto-ignition Temperature (°C): Not available

Not available

Viscosity (mPa s): 1 - 5

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10 STABILITY AND REACTIVITY

Information on Basic Physical and Chemical Properties:

Other Information: Not available

Reactivity: None

None

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 6 of 8

6497B

MSDS #: IC3539-0101

Product Code:

Not available

Inhalation:

Not available

Ingestion:

Non-irritant (rabbit) (Estimate)

OECD Guidelines No. 404 (2002), (EC) No 440/2008 Method B4

Skin:

Minimal irritant (rabbit) (Estimate)

OECD Guidelines No. 405 (2002), (EC) No 440/2008 Method B5

Eye:

Non-sensitizer (mouse) (Estimate)
OECD Guidelines No. 429 (2010), (EC) No 440/2008 Method B42

Sensitization:

Ames test: Negative (*S. typhimurium* & *E. Coli*)

Mutagenicity:

Not available

Toxicity for Reproduction:

Not available

Carcinogenicity:

Not available

Other Information:**SECTION 11 TOXICOLOGICAL INFORMATION****Acute Toxicity:****Information on Toxicological Effects:****Corrosivity/Irritation:****Skin:****Repeated Dose Toxicity:**

Not available

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 7 of 8

6497B

MSDS #: IC3539-0101

Product Code:

Mobility in Soil: Not available

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available

Toxicity: Not available

Other Adverse Effects: Not available

Disposal should be subject to federal, state and local laws.

Waste Treatment Methods:

None

SARA Title III §313:

None

California Proposition 65:**SECTION 13 DISPOSAL CONSIDERATIONS**

< USA Information >

Chemical Name Weight %

Chemical Name Weight %

None

Safety, Health and Environmental Regulations/Legislation:

Restriction: Not regulated

(EC) No 1005/2009: Not regulated

(EC) No 689/2008: Not regulated

< EU Information >

Others:

UN Number: None

UN Proper Shipping Name: None

Transport Hazard Class: None

Special Precautions for User: None

Packing Group: None

Environmental Hazards:**SECTION 15 REGULATORY INFORMATION**

WHMIS Controlled Product: Not applicable (Manufactured article)

Statement of Hazardous Nature: This product will not be shipped to Australia.

< Canada Information >

< Australia Information >

SECTION 12 ECOLOGICAL INFORMATION

SECTION 14 TRANSPORT INFORMATION

Results of PBT and vPvB

Assessment:

No results that the component(s) of this ink meet(s) the PBT or vPvB criteria under Regulation (EC) No 1907/2006.

Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.

(EC) No 1907/2006: Authorisation:Not regulated

(EC) No 850/2004: Not regulated

Chemical Safety Assessment under (EC) No 1907/2006: Not required

Date of Issue:April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 8 of 8

6497B

MSDS #: IC3539-0101

Product Code:

Literature References:

<Term explanation>

Estimate: Estimate based on data of similar product or the ingredient(s) of this product.

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date hereof. The company/manufacture makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/manufacture be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

SECTION 16 OTHER INFORMATION

- U.S. Department of Labor, 29CFR Part 1910
 - U.S. Environmental Protection Agency, 40CFR Part 372
 - U.S. Consumer Product Safety Commission, 16CFR Part 1500
 - ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
 - U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
 - World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
 - EU Directive 1999/45/EC
 - EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008
 - Canada Workplace Hazardous Materials Information System
 - Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substance [NOHSC:1008]
- OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)
FHSA: Federal Hazardous Substances Act (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
SVHC: Substances of Very High Concern
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program (USA)
OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)
ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists
EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU
TWA: Time Weighted Average
STEL: Short Term Exposure Limit
WHMIS: Workplace Hazardous Materials Information System
NOHSC: National Occupational Health and Safety Commission

Abbreviations:

Date of Issue:April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 1 of 8

6514B

MSDS #: IC3554-0101

Product Code:

Product Name: Canon Ink Tank CLI-251 C

Product Code: 6514B

Manufacturer: Canon Inc.

Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Relevant Identified Uses: Ink for Ink Jet Printer

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ink tank containing cyan liquid ink with slight odor.

Emergency Overview:

SECTION 2 HAZARDS IDENTIFICATION

Not classified as dangerous.

EU Classification under 1999/45/EC:

Product Identifier:

Details of Supplier of Safety Data Sheet:

Supplier:

Address:

Telephone Number:

E-mail Address:

Emergency Telephone Number:

US Regulatory Status

Not classified as hazardous.

Not required

US Label Elements

Signal Word:

Hazard Warning: Not required

Hazardous Component: Not required

Safety Advice: Not required

under FHSA:

Symbol & Indication: Not required

R-Phrase: Not required

Dangerous Component: Not required

EU Label Elements under 1999/45/EC:

S-Phrase: Not required

Not required

Applicable Label Elements in accordance with Annex V to 1999/45/EC:

Other Hazards:

None

under FHSA:

Date of Issue: April 20, 2012 Revision Date:

Canon USA Inc.,

One Canon Park, Melville, NY 11747, USA

1-800-OK-CANON

24 Hr. Emergency CHEMTREC # 1-800-424-9300

MATERIAL SAFETY DATA SHEET

Page 2 of 8

6514B

MSDS #: IC3554-0101

Product Code:

Carcinogen(s):

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) No 1272/2008.

Ingredient(s):

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name/

Generic Name

CAS #/
EC #
Concentration/
Concentration
Range (%)
EU Classification according to
67/548/EEC
EU Classification according to
(EC) No 1272/2008
Note to
Other
Symbol/ Hazards*₂
Indication of Danger
R-Phrase*₁ Hazard Class/
Category Code
Hazard
Statement*₁
Glycerin
Ethylene urea
Substituted
phthalocyanine
Substituted
phthalocyanine
Glycol
Glycol
Water
56-81-5 /
200-289-5
120-93-4 /
204-436-4
Confidential
Confidential
Confidential
Confidential
7732-18-5 /
231-791-2
5 - 10
5 - 10
1 - 5
1 - 5
5 - 10
5 - 10
60 - 80
None
Xi / Irritant
Xi / Irritant
None
None
None
None
None
None
R36
R41
R52/53
None
None
None
None
None
Eye Irrit. 2
Eye Dam. 1
Aquatic Chronic 3
None
None
None
None
None
H319
H318

H412
None
None
None
None

(1)

*1 Full texts of R-phrases and Hazard statement(s) are listed in SECTION 16

*2 The following substance(s) is (are) marked with (1), (2) and/or (3)

(1) Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)

(2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006

(3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

Substance or Mixture: Mixture

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 3 of 8

6514B

MSDS #: IC3554-0101

Product Code:

CO₂, water, foam or dry chemicals

Suitable Extinguishing Media:

None

Special Hazards:

CO, CO₂, NO_x and SO_x

Hazardous Combustion Products:

Advice for Fire-fighters:

Avoid contact with skin, eyes and clothing.

Personal Precautions, Protective Equipment and Emergency Procedures:

Do not release to sewer, surface water or ground water.

Environmental Precautions:

Wipe off with wet cloth or paper.

Methods and Material for Containment and Cleaning Up:

Extinguishing Media:

Unsuitable Extinguishing Media:

None

SECTION 6 ACCIDENTAL RELEASE MEASURES

SECTION 5 FIRE FIGHTING MEASURES

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Inhalation:

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

Ingestion:

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

Eye:

Indication of Any Immediate Medical Attention and Special Treatment Needed:

First Aid Measures:

SECTION 4 FIRST AID MEASURES

None

Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

May cause minimal irritation. (See SECTION 11)

Eye:

Neither irritation nor sensitization is expected. (See SECTION 11)

Skin:

No adverse effects are expected under intended use.

Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Inhalation:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Ingestion:

Not identified

Chronic Effects:

Most Important Symptoms and Effects, both Acute and Delayed:

None

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 4 of 8

6514B

MSDS #: IC3554-0101

Product Code:

Use with adequate ventilation.

Avoid contact with skin, eyes and clothing.

In case of contact, wash out the contaminated area immediately.

Precautions for Safe Handling:

Keep in a cool and dry place.

Protect from sunlight.

Keep out of the reach of children.

Conditions for Safe Storage, Including Any Incompatibilities:

Control Parameters:

Engineering Controls: No special ventilation equipment is needed under intended use of this product.

Respiratory Protection: Required Not Required

Eye/Face Protection: Required Not Required

Required Not Required

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection:

Individual Protection Measures:

Ink for Ink Jet Printer.

For more information, please refer to the instruction of this product.

Specific End Uses:

SECTION 7 HANDLING AND STORAGE

USA

OSHA PEL

ACGIH TLV EU OEL

Product (Ink) Not established Not established Not established

Glycerin mist:

TWA 15 mg/m³ (Total dust)

TWA 5 mg/m³

(Respirable fraction)

Glycerin mist:

TWA 10 mg/m³

Glycerin Not established

Exposure Controls:

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 5 of 8

6514B

MSDS #: IC3554-0101

Product Code:

Odor: Slight odor

pH: 7 - 9

Not available

Initial Boiling Point and

Boiling Range (°C):

Melting Point/Freezing Point (°C): Not available

Vapor Pressure : Not available

Vapor Density : Not available

Relative Density: 1.0 - 1.1
Water Solubility : Miscible
Fat Solubility : Not available
Partition Coefficient (n-Octanol/Water):
Evaporation Rate: Not available
Chemical Stability: Stable Unstable
Conditions to Avoid: None
Incompatible Materials: Acids, bases, oxidizing materials and reducing agents
Hazardous Decomposition Products:CO, CO₂, NO_x and SO_x
Possibility of Hazardous Reactions:
Appearance:
Flash Point(°C): None (Estimate)
Explosive Properties: None (Estimate)
Oxidizing Properties: None (Estimate)
Cyan liquid
Flammability: Neither flammable nor combustible.
Decomposition Temperature(°C): Not available
Not available
Upper/Lower Flammable or Explosive Limits:
Auto-ignition Temperature (°C): Not available
Not available

Viscosity (mPa s): 1 - 5

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10 STABILITY AND REACTIVITY

Information on Basic Physical and Chemical Properties:

Other Information: Not available

Reactivity: None

None

Date of Issue:April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 6 of 8

6514B

MSDS #: IC3554-0101

Product Code:

Not available

Inhalation:

Not available

Ingestion:

Non-irritant (rabbit) (Estimate)

OECD Guidelines No. 404 (2002), (EC) No 440/2008 Method B4

Skin:

Minimal irritant (rabbit) (Estimate)

OECD Guidelines No. 405 (2002), (EC) No 440/2008 Method B5

Eye:

Non-sensitizer (mouse) (Estimate)

OECD Guidelines No. 429 (2010), (EC) No 440/2008 Method B42

Sensitization:

Ames test: Negative (*S. typhimurium* & *E. Coli*)

Mutagenicity:

Not available

Toxicity for Reproduction:

Not available

Carcinogenicity:

Not available

Other Information:

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Information on Toxicological Effects:

Corrosivity/Irritation:

Skin:

Repeated Dose Toxicity:

Not available

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 7 of 8

6514B

MSDS #: IC3554-0101

Product Code:

Mobility in Soil: Not available

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available

Toxicity: Not available

Other Adverse Effects: Not available

Disposal should be subject to federal, state and local laws.

Waste Treatment Methods:

"Copper Compounds"

(as Cu)

SARA Title III §313:

5 - 10

(< 0.35)

None

California Proposition 65:

SECTION 13 DISPOSAL CONSIDERATIONS

< USA Information >

Chemical Name Weight %

Chemical Name Weight %

None

Safety, Health and Environmental Regulations/Legislation:

Restriction: Not regulated

(EC) No 1005/2009: Not regulated

(EC) No 689/2008: Not regulated

< EU Information >

Others:

UN Number: None

UN Proper Shipping Name: None

Transport Hazard Class: None

Special Precautions for User: None

Packing Group: None

Environmental Hazards:

SECTION 15 REGULATORY INFORMATION

WHMIS Controlled Product: Not applicable (Manufactured article)

Statement of Hazardous Nature: This product will not be shipped to Australia.

< Canada Information >

< Australia Information >

SECTION 12 ECOLOGICAL INFORMATION

SECTION 14 TRANSPORT INFORMATION

Results of PBT and vPvB

Assessment:

No results that the component(s) of this ink meet(s) the PBT or vPvB criteria under Regulation (EC) No 1907/2006.

Not classified as environmentally hazardous under UN Model Regulations and marine

pollutant under IMDG Code.

(EC) No 1907/2006: Authorisation:Not regulated

(EC) No 850/2004: Not regulated

Chemical Safety Assessment under (EC) No 1907/2006: Not required

Date of Issue:April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 8 of 8

6514B

MSDS #: IC3554-0101

Product Code:

Literature References:

<EU R-phrase according to 67/548/EEC>

R36: Irritating to eyes.

R41: Risk of serious damage to eyes.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<EU Hazard statement according to (EC) No 1272/2008>

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

<Term explanation>

Estimate: Estimate based on data of similar product or the ingredient(s) of this product.

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date hereof. The company/manufacture makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/manufacture be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

SECTION 16 OTHER INFORMATION

- U.S. Department of Labor, 29CFR Part 1910

- U.S. Environmental Protection Agency, 40CFR Part 372

- U.S. Consumer Product Safety Commission, 16CFR Part 1500

- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens

- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans

- EU Directive 1999/45/EC

- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008

- Canada Workplace Hazardous Materials Information System

- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substance [NOHSC:1008]

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)

FHSA: Federal Hazardous Substances Act (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

SVHC: Substances of Very High Concern

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program (USA)

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)

ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists

EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU

TWA: Time Weighted Average

STEL: Short Term Exposure Limit

WHMIS: Workplace Hazardous Materials Information System

NOHSC: National Occupational Health and Safety Commission

Abbreviations:

Date of Issue:April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 1 of 8

6515B

MSDS #: IC3556-0101

Product Code:

Product Name: Canon Ink Tank CLI-251 M

Product Code: 6515B

Manufacturer: Canon Inc.

Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Relevant Identified Uses: Ink for Ink Jet Printer

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ink tank containing magenta liquid ink with slight odor.

Emergency Overview:

SECTION 2 HAZARDS IDENTIFICATION

Not classified as dangerous.

EU Classification under 1999/45/EC:

Product Identifier:

Details of Supplier of Safety Data Sheet:

Supplier:

Address:

Telephone Number:

E-mail Address:

Emergency Telephone Number:

US Regulatory Status

Not classified as hazardous.

Not required

US Label Elements

Signal Word:

Hazard Warning: Not required

Hazardous Component:Not required

Safety Advice: Not required

under FHSA:

Symbol & Indication: Not required

R-Phrase: Not required

Dangerous Component: Not required

EU Label Elements under 1999/45/EC:

S-Phrase: Not required

Not required

Applicable Label Elements in accordance with Annex V to 1999/45/EC:

Other Hazards:

None

under FHSA:

Date of Issue:April 20, 2012 Revision Date:

Canon USA Inc.,

One Canon Park, Melville, NY 11747, USA

1-800-OK-CANON

24 Hr. Emergency CHEMTREC # 1-800-424-9300

MATERIAL SAFETY DATA SHEET

Page 2 of 8

6515B

MSDS #: IC3556-0101

Product Code:

Carcinogen(s):

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) No 1272/2008.

Ingredient(s):

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name/

Generic Name

CAS #/

EC #
Concentration/
Concentration
Range (%)
EU Classification according to
67/548/EEC
EU Classification according to
(EC) No 1272/2008
Note to
Other

Symbol/ Hazards*₂
Indication of Danger
R-Phrase*₁ Hazard Class/
Category Code
Hazard

Statement*₁
Ethylene urea
Glycerin
Pyridine Azo dye
Water
120-93-4 /
204-436-4
56-81-5 /
200-289-5
Confidential
7732-18-5 /
231-791-2
5 - 10
1 - 5
1 - 5
60 - 80
Xi / Irritant
None
N / Dangerous for Environment
None
R36
None
R51/53
None
Eye Irrit. 2
None
Aquatic Chronic 2
None
H319
None
H411
None

(1)

*1 Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

*2 The following substance(s) is (are) marked with (1), (2) and/or (3)

(1) Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)

(2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006

(3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

Substance or Mixture: Mixture

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 3 of 8

6515B

MSDS #: IC3556-0101

Product Code:

CO₂, water, foam or dry chemicals

Suitable Extinguishing Media:

None

Special Hazards:

CO, CO₂, NO_x and SO_x

Hazardous Combustion Products:

Advice for Fire-fighters:

Avoid contact with skin, eyes and clothing.

Personal Precautions, Protective Equipment and Emergency Procedures:

Do not release to sewer, surface water or ground water.

Environmental Precautions:

Wipe off with wet cloth or paper.

Methods and Material for Containment and Cleaning Up:**Extinguishing Media:****Unsuitable Extinguishing Media:**

None

SECTION 6 ACCIDENTAL RELEASE MEASURES**SECTION 5 FIRE FIGHTING MEASURES**

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Inhalation:

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

Ingestion:

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

Eye:**Indication of Any Immediate Medical Attention and Special Treatment Needed:****First Aid Measures:****SECTION 4 FIRST AID MEASURES**

None

Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

May cause mild irritation. (See SECTION 11)

Eye:

Neither irritation nor sensitization is expected. (See SECTION 11)

Skin:

No adverse effects are expected under intended use.

Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Inhalation:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Ingestion:

Not identified

Chronic Effects:**Most Important Symptoms and Effects, both Acute and Delayed:**

None

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 4 of 8

6515B

MSDS #: IC3556-0101

Product Code:

Use with adequate ventilation.

Avoid contact with skin, eyes and clothing.

In case of contact, wash out the contaminated area immediately.

Precautions for Safe Handling:

Keep in a cool and dry place.

Protect from sunlight.

Keep out of the reach of children.

Conditions for Safe Storage, Including Any Incompatibilities:**Control Parameters:**

Engineering Controls: No special ventilation equipment is needed under intended use of this product.

Respiratory Protection: Required Not Required

Eye/Face Protection: Required Not Required

Required Not Required

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection:

Individual Protection Measures:

Ink for Ink Jet Printer.

For more information, please refer to the instruction of this product.

Specific End Uses:

SECTION 7 HANDLING AND STORAGE

USA

OSHA PEL

ACGIH TLV EU OEL

Product (Ink) Not established Not established Not established

Glycerin mist:

TWA 15 mg/m³ (Total dust)

TWA 5 mg/m³

(Respirable fraction)

Glycerin mist:

TWA 10 mg/m³

Glycerin Not established

Exposure Controls:

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 5 of 8

6515B

MSDS #: IC3556-0101

Product Code:

Odor: Slight odor

pH: 7 - 9

Not available

Initial Boiling Point and

Boiling Range (°C):

Melting Point/Freezing Point (°C): Not available

Vapor Pressure : Not available

Vapor Density : Not available

Relative Density: 1.0 - 1.1

Water Solubility : Miscible

Fat Solubility : Not available

Partition Coefficient (n-Octanol/Water):

Evaporation Rate: Not available

Chemical Stability: Stable Unstable

Conditions to Avoid: None

Incompatible Materials: Acids, bases, oxidizing materials and reducing agents

Hazardous Decomposition Products: CO, CO₂, NO_x and SO_x

Possibility of Hazardous Reactions:

Appearance:

Flash Point(°C): None (Estimate)

Explosive Properties: None (Estimate)

Oxidizing Properties: None (Estimate)

Magenta liquid

Flammability: Neither flammable nor combustible.

Decomposition Temperature(°C): Not available

Not available

Upper/Lower Flammable or

Explosive Limits:

Auto-ignition Temperature (°C): Not available

Not available

Viscosity (mPa s): 1 - 5

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10 STABILITY AND REACTIVITY

Information on Basic Physical and Chemical Properties:

Other Information: Not available

Reactivity: None

None

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 6 of 8

6515B

MSDS #: IC3556-0101

Product Code:

Not available

Inhalation:

Not available

Ingestion:

Non-irritant (rabbit) (Estimate)

OECD Guidelines No. 404 (2002), (EC) No 440/2008 Method B4

Skin:

Mild irritant (rabbit) (Estimate)

OECD Guidelines No. 405 (2002), (EC) No 440/2008 Method B5

Eye:

Non-sensitizer (mouse) (Estimate)

OECD Guidelines No. 429 (2010), (EC) No 440/2008 Method B42

Sensitization:

Ames test: Negative (*S. typhimurium* & *E. Coli*)

Mutagenicity:

Not available

Toxicity for Reproduction:

Not available

Carcinogenicity:

Not available

Other Information:

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Information on Toxicological Effects:

Corrosivity/Irritation:

Skin:

Repeated Dose Toxicity:

Not available

Date of Issue: April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 7 of 8

6515B

MSDS #: IC3556-0101

Product Code:

Mobility in Soil: Not available

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available

Fish, Acute toxicity test:

96-Hour LC50 > 100 mg/L (*Oryzias latipes*)

OECD Guidelines No. 203 (1992)

Daphnia sp., Acute immobilisation test:

48-Hour EC50 > 100 mg/L, NOEC = 100 mg/L (*Daphnia magna*)

OECD Guidelines No. 202 (2004), (EC) No 440/2008 Method C.2

Lemna sp., Growth inhibition test:

EC50 (0-7day) > 100 mg/L, NOEC = 100 mg/L (*Lemna minor*)

OECD Guidelines No. 221 (2006)
NOEC: No Observed Effect Concentration

Toxicity:

Other Adverse Effects: Not available

Disposal should be subject to federal, state and local laws.

Waste Treatment Methods:

None

SARA Title III §313:

None

California Proposition 65:

SECTION 13 DISPOSAL CONSIDERATIONS

< USA Information >

Chemical Name Weight %

Chemical Name Weight %

None

Safety, Health and Environmental Regulations/Legislation:

Restriction: Not regulated

(EC) No 1005/2009: Not regulated

(EC) No 689/2008: Not regulated

< EU Information >

Others:

UN Number: None

UN Proper Shipping Name: None

Transport Hazard Class: None

Special Precautions for User: None

Packing Group: None

Environmental Hazards:

SECTION 15 REGULATORY INFORMATION

WHMIS Controlled Product: Not applicable (Manufactured article)

Statement of Hazardous Nature: This product will not be shipped to Australia.

< Canada Information >

< Australia Information >

SECTION 12 ECOLOGICAL INFORMATION

SECTION 14 TRANSPORT INFORMATION

Results of PBT and vPvB

Assessment:

No results that the component(s) of this ink meet(s) the PBT or vPvB criteria under Regulation (EC) No 1907/2006.

Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.

(EC) No 1907/2006: Authorisation:Not regulated

(EC) No 850/2004: Not regulated

Chemical Safety Assessment under (EC) No 1907/2006: Not required

Date of Issue:April 20, 2012 Revision Date:

MATERIAL SAFETY DATA SHEET

Page 8 of 8

6515B

MSDS #: IC3556-0101

Product Code:

Literature References:

<EU R-phrase according to 67/548/EEC>

R36: Irritating to eyes.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<EU Hazard statement according to (EC) No 1272/2008>

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

<Term explanation>

Estimate: Estimate based on data of similar product or the ingredient(s) of this product.

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date hereof. The company/manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

SECTION 16 OTHER INFORMATION

- U.S. Department of Labor, 29CFR Part 1910
 - U.S. Environmental Protection Agency, 40CFR Part 372
 - U.S. Consumer Product Safety Commission, 16CFR Part 1500
 - ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
 - U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
 - World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
 - EU Directive 1999/45/EC
 - EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008
 - Canada Workplace Hazardous Materials Information System
 - Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substance [NOHSC:1008]
- OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)
FHSA: Federal Hazardous Substances Act (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
SVHC: Substances of Very High Concern
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program (USA)
OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)
ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists
EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU
TWA: Time Weighted Average
STEL: Short Term Exposure Limit
WHMIS: Workplace Hazardous Materials Information System
NOHSC: National Occupational Health and Safety Commission

Abbreviations:

Date of Issue: April 20, 2012 Revision Date: