


## FLUORESCENT DRY ERASE INK – All Colours

Safety Data Sheet (prepared according to 1999/45/EC and 67/548/EEC )

1.0 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING					
Product Name	Fluorescent Dry Erase Ink – All Colours				
Intended use	Dry erase ink				
Company Identification	Multichem Limited Tyne Mills Industrial Estate Hexham Northumberland England NE46 1XL				
<b>Emergency Tel (24 hrs):</b>	<b>+44 7887 612787</b>				
Daytime Tel	+44 1434 606 085				
Fax Number	+44 1434 601 804				
e-mail	mail@multichem.net				
2.0 – HAZARDS IDENTIFICATION					
Danger Symbols	<b>F</b>				
R-Phrases	<b>R11</b>				
Danger Identification	HIGHLY FLAMMABLE				
3.0 – COMPOSITION / INFORMATION ON INGREDIENTS					
<b>Substance/Preparation</b>	Preparation				
<b>Contains:</b>	<b>EINECS</b>	<b>CAS</b>	<b>Conc'n %</b>	<b>Symbols</b>	<b>R-phrases</b>
DENATURED ETHANOL (METHANOL FREE)	200-578-6	64-17-5	50 to 55%	F	R11
ISO-PROPANOL (PROPAN-2-OL)	200-661-7	67-63-0	<15%	F, Xi	R11, R36, R67
RESIN	-	-	<5%	-	Not classified*
PIGMENT	-	-	5-10%	-	Not classified*
FLUORESCENT PIGMENT	-	-	<20%	-	Not classified*
ADDITIVES	-	-	10 to 15%	-	Not classified*
SURFACE ADDITIVE	-	-	1%	-	R52/53
<i>*Not classified as hazardous according to EC Directives 67/548/EEC or 1999/45/EC</i>					
4.0 FIRST AID MEASURES					
<b>First-aid Measures</b>					
Skin Contact	Wash skin with soap and water. Remove contaminated clothing, which should be washed or dry cleaned before reuse. If irritation persists, obtain medical attention.				
Eye Contact	Wash eyes with copious amounts of water. Continue to rinse for at least 15 minutes and obtain medical attention.				
Inhalation	Remove from exposure - in severe cases obtain medical attention.				
Ingestion	Give plenty to drink if ingestion is suspected. Do not induce vomiting. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.				
<b>Symptoms and Effects</b>					
Skin Contact	May cause irritation.				
Eye Contact	May cause irritation.				
Inhalation	In high concentrations, may cause headache, nausea, drowsiness, dizziness.				
Ingestion	Ingestion of large amounts of may cause nausea, vomiting, abdominal pain.				
5.0 - FIRE-FIGHTING MEASURES					
Hazard	Flash point 12°C (closed cup). Explosive limits: lower limit 3.5% to 19% upper limit				
Extinguishing Media	Use water spray, foam, CO <sub>2</sub> , or dry powder.				
Special Exposure Hazards	Closed container may rupture if strongly heated. Cool containers with water spray in order to prevent pressure build-up, auto-ignition or explosion. Vapours may flow along surfaces to distant ignition sources and flash back.				
Personal Protective Equipment	Wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.				
6.0 - ACCIDENTAL RELEASE MEASURES					
Personal Precautions	Avoid contact with skin and eyes. Ventilate contaminated area thoroughly. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risk.				
Environmental Precautions	Do not allow runoff to sewer. If this occurs inform authorities.				
Method of Clean Up	Absorb spillages with vermiculite, dry sand or earth and transfer into marked sealable drums. Flush contaminated area with plenty of water. Retain washings as contaminated waste.				

<b>7.0 – HANDLING AND STORAGE</b>	
Handling	Product is not intended nor should be allowed to maintain prolonged skin contact. Ensure good ventilation or the provision of local exhaust ventilation where possible. Avoid contact with eyes, skin and clothing, avoid ingestion and inhalation. Avoid sources of ignition.
Storage	Keep away from direct sunlight and other sources of heat or ignition. Keep away from oxidising agents. Do not smoke in storage areas. Keep container tightly closed and in a well-ventilated place.
Product Transfer	Low flash point – requires attention to equipment used in transport and use so as to avoid sparks and other sources of ignition. Take precautionary measures against static discharges. Earth all equipment. Avoid splash filling. Do not empty into drains. Multichem advise that their inks be stored for at least 24 hours at around room temperature and then agitated prior to assembly into marker pens.
<b>8.0 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
Exposure Limit Values	<b>Denatured ethanol EH40 (UK)</b> OES: 1000 ppm Period: 8 hours OES: 1900 mg/m <sup>3</sup> Period: 8 hrs <b>Iso-Propanol EH40 (UK)</b> LTEL: 999mg/m <sup>3</sup> Period: 8 hrs STEL: 1250mg/m <sup>3</sup>
Respiratory Protection	Avoid inhalation of the vapours when the product is being used. Local exhaust ventilation (LEV) should be used in conjunction with other control measures as a means of removing material accidentally released. Type approved RPE for organic vapours if required.
Hand Protection	Wear chemical resistant butyl rubber gloves.
Eye Protection	Wear safety glasses. Provide eyewash station.
Skin Protection	Wear suitable protective clothing and anti-static safety shoes. Provide safety shower.
<b>9.0 - PHYSICAL AND CHEMICAL PROPERTIES</b>	
Appearance	Various Colours
Physical State	Liquid
Odour	Alcohol
Viscosity	10 to 20CP
pH	7 to 9
Volatility	65%
Miscibility	Solvents miscible with water
Boiling Point	78.3°C
Flash Point	12°C
Auto-ignition Temperature	365°C
Explosive Limits	Lower limit 3.5% to 19% upper limit (volume % in air)
<b>10.0 - STABILITY AND REACTIVITY</b>	
Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and other sources of ignition.
Materials to Avoid	Reacts strongly with oxidising agents.
Hazardous Decomposition Products	Fire produces smoke, carbon monoxide, carbon dioxide and water.
<b>11.0 - TOXICOLOGICAL INFORMATION</b>	
Toxicological Data	Acute oral toxicity (LD50) >2000 mg/kg (Rat)
Acute Effects	May cause irritation.
Sensitisation	Allergic skin reaction / dermatitis could occur with misuse of this preparation.
Repeated Dose Toxicity	-
CMR Effects	-
<b>12.0 - ECOLOGICAL INFORMATION</b>	
Ecotoxicity	Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.
Mobility	Mobile liquid. Prevent contamination of soil or water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
Persistence and Degradability	Solvents are biodegradable
Bioaccumulative Potential	This product shows a low bioaccumulation potential
<b>13.0 - DISPOSAL CONSIDERATIONS</b>	
Substance/Preparation	Do not pour into drains. Obtain the services of a waste disposal contractor for advice. Otherwise, send to a registered top or dispose of in a safe area under controlled conditions of incineration to comply with local and national regulations.
Waste Residues	As above.
Contaminated Packaging	Consider recycling or incineration.

<b>14.0 -TRANSPORT INFORMATION</b>	
UN No:	1993
Proper Shipping Name:	Flammable Liquid n.o.s (Contains Ethanol)
ADR, IATA, IMDG Hazard Class	3
Packing Group	2
<b>15.0 - REGULATORY INFORMATION</b>	
Hazard Symbols	<b>F</b>
	
	<b>HIGHLY FLAMMABLE</b>
R-phrases	R11 – Highly flammable
S-Phrases	S2 – Keep out of reach of children S7 – Keep container tightly closed S16 – Keep away from sources of ignition. No smoking
<b>16.0 - OTHER INFORMATION</b>	
List of R Phrases	R36 – irritating to eyes R67 – vapours may cause drowsiness and dizziness R52/53 – harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment
Prepared by	David Darbyshire (Technical Manager) / Marie Eke (Senior Chemist)
HS Tariff No	3215.90.00
The information contained herein does not constitute the user's own assessment of workplace risk as required by other health and safety legislation. The above information is provided in good faith and is based on our present knowledge. It shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual arrangement.	