

SAFETY DATA SHEET (SDS)



Marker Ink

1: Product and Manufacturer Identification

Product Name : Marker Ink
Product Code / Other Names : Multichem Whiteboard Ink WB600.11 All Colours
Material Uses : Ink
Manufacturer Name : Multichem Limited
Street Address : Tyne Mills Industrial Estate
City, State, Province : Hexham, Northumberland, NE46 1XL
Country & Post Code : United Kingdom

Emergency Contacts : +44 7887 612787

2: Hazard(s) Identification 危險辨識

Physical State : mixture
Odor : Alcohol-like
WHMIS Status (Canada) : N/A
Hazard Statements or Symbols : N/A
OSHA/HCS Status (USA) : N/A
Hazard Statements or Symbols : N/A
Emergency Overview : N/A
Possible Routes of Entry : N/A

Potential Acute Health Effects

Inhalation : N/A
Ingestion : N/A
Skin Contact : N/A
Eye Contact : rinse cautiously with water for several minutes.

Potential Chronic Health Effects

Chronic Effects : N/A
Carcinogenicity : N/A
Mutagenicity : N/A
Teratogenicity : N/A
Developmental Effects : N/A
Fertility Effects : N/A
Medical conditions aggravated by : N/A
Additional hazards not otherwise classified : N/A

3: Composition / Information on Ingredients

Ingredient Name or Description	CAS Number	%
Ethanol	64-17-5	< 70%
Propan-2-ol	67-63-0	< 16%
Diethyl maleate	142-16-5	< 10%

Additional Composition Details : N/A

4: First-aid Measures

Eye Contact : Rinse thoroughly with plenty of water, also under the eyelids. Consult an eye specialist immediately.
Skin Contact : Wash off with plenty of water. If skin irritation persists, seek medical advice.
Inhalation : Remove to fresh air. If symptoms persist, seek medical advice. If unconscious place in recovery position.
Ingestion : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting – seek medical advice.
Protection for First-aid Providers : Take off all contaminated clothing immediately
Notes to Physician : Treat symptomatically.

5: Fire-fighting Measures

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Flammability of the Product : N/A

Extinguishing Media/Methods

- Suitable : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Not Suitable : High volume water jet.
- Special Exposure Hazards : Highly flammable. Vapours may form explosive mixtures with air. In case of fire hazardous decomposition products may be produced, such as carbon monoxide (CO) and carbon dioxide (CO₂).
- Products of Combustion : Carbon Monoxide (CO) can form with incomplete combustion. Some oxides of nitrogen (NOX) and sulphur (SOX) could be formed. Complete combustion will yield primarily carbon dioxide (CO₂) and water.
- Special Protective Equipment Needed for Fire-fighters : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).
- Special Remarks on Fire Hazards : N/A
- Special Remarks on Explosion Hazards : Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise – with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6: Accidental Release Measures

- Personal Precautions : Use personal protective equipment. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapours.
- Protective Equipment : N/A
- Environmental Precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

Cleaning / Containing

- Small Spill : With plenty of water.
- Large Spill : With plenty of water.

7: Handling and Storage

- Safe Handling Precautions : Keep container tightly closed. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the working day. Take off all contaminated clothing immediately. Avoid contact with skin and eyes. Do not breathe vapours of spray mist.
- Safe Storage Precautions : Keep in an area equipped with solvent resistant flooring. Store in original container. Combustible liquid. Keep away from sources of ignition – no smoking. Take measures to prevent the build-up of electrostatic charge. Vapours may form explosive mixtures in air. Use only in an area containing explosion proof equipment. Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Keep away from heat. Keep away from direct sunlight. Incompatible with oxidizing agents. Keep away from food, drink and animal feeding stuffs.

8: Exposure Controls/Personal Protection

Ingredient Name/Description	Exposure Limits

- Recommended Monitoring Procedures : N/A
- Engineering Measures : N/A
- Hygiene Measures : N/A

Personal Protection

- Respiratory : Required, if exposure limit is exceeded (e.g. OEL). Respirator with a gas filter. Recommended filter type: A.
- Hands : Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear.
- Eyes : Safety glasses.
- Skin : Wear suitable protective clothing.
- Environmental Exposure Controls : Do not let product enter drains. If the product contaminates rivers and lakes or drains inform respective authorities.

9: Physical and Chemical Properties

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Physical State	: Liquid
Flash Point (°C and °F)	: 12°C
Auto-ignition Temperature (°C and °F)	: 425°C
Flammable Limits	: N/A
Color	: Various
Odor	: Alcohol-like
Odor Threshold	: N/A
pH	: 4.0 to 12.0
Boiling/Condensing Point (°C and °F)	: 78.3°C
Melting/Freezing Point (°C and °F)	: -114.5°C
Relative Density	: 0.82 – 0.86 g/cm ³ (water = 1.0)
Vapor Pressure	: 59 hPa 20°C
Vapor Density	: N/A
Volatility	: Approx 80%.
Evaporation Rate	: N/A
Viscosity	: 5 – 14 Cp
Pour Point (°C and °F)	: N/A
Solubility	: Completely miscible.

10: Stability and Reactivity

Chemical Stability	: Stable under normal conditions.
Hazardous Polymerization	: N/A
Materials to Avoid	: Alkali metals, alkaline earth metals, strong oxidizing agents, nitric acid, sulphuric acid, peroxides (e.g. hydrogen peroxide).
Hazardous Decomposition Products	: Under fire conditions: carbon monoxide (CO), carbon dioxide (CO ₂).

11: Toxicological Information

Acute Toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
No				

Chronic Toxicity

Conclusion/Summary : N/A

Irritation/Corrosion

Conclusion/Summary : Decreases the skin, which may cause dryness. Prolonged or repeated skin contact may result in dermatitis.

Sensitizer

Conclusion/Summary : Did not cause sensitisation on laboratory animals.

Carcinogenicity

Conclusion/Summary : N/A

Classification

Product/Ingredient Name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA

Mutagenicity

Conclusion/Summary : N/A

Teratogenicity

Conclusion/Summary : N/A

Reproductive Toxicity

Conclusion/Summary : N/A

12: Ecological Information*

Environmental Effects

Aquatic Ecotoxicity

Conclusion/Summary : N/A

Biodegradability

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Conclusion/Summary : N/A
Other Adverse Effects : N/A

13: Disposal Considerations*

Waste Disposal : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not empty into drains. Contact waste disposal services.

Additional References/Details : N/A

14: Transport Information*

Regulatory Information	UN #	Proper Shipping Name	Classes	PG	Label	Additional Information
TDG Classification						
DOT Classification						

Special Precautions : N/A

15: Regulatory Information*

United States

HCS Classification : N/A

Canada

WHMIS Classification : N/A

International Regulations

Canada Inventory : N/A

United States Inventory (TSCA 8b) : N/A

Europe Inventory : N/A

Additional Regulatory Statements : N/A

16: Other Information

Hazardous Material Information System (United States) : N/A

National Fire Protection Association (United States) : N/A

Additional References : N/A

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Name of Responsible Party : Datazone

Contact for Copies of SDS : N/A

Additional Comments/Notices : N/A