Material Safety Data Sheet



MDG Low Fog Fluid

Section 1. Chemical Product and Company Identification

: LF-B2.5, LF-C25, LF-D205 **Common Name** MDG Low Fog Fluid

MDG Fog Generators Ltd. MSDS# Supplier/ Not available. 5639 Christophe-Colomb, Manufacturer

> Montréal, QC H2S 2E8

> > : Glycol based fog fluid.

: Not available. : 10/11/2002. Synonym **Validation Date** Not available. 10/11/2002. **Print Date** Trade name

Canada: In Case of Emergency

CANUTEC-1-613-996-6666

Kemika

Responsible Name

CHEMTREC-1-800-424-9300

Section 2. Composition, Information on Ingredients

% by Weight **Exposure Limits** Name

No hazardous ingredient.

Material Uses

Section 3. Hazards Identification

Physical State and Appearance: Liquid.

: No specific hazard. **Emergency Overview**

: Absorbed through skin. Eye contact. Inhalation. Ingestion. **Routes of Entry**

Potential Acute Health Effects

Eyes: Slightly hazardous in case of eye contact (irritant).

Skin: Non-irritant for skin.

Inhalation: Slightly hazardous in case of inhalation (lung irritant).

Ingestion: Not available.

: CARCINOGENIC EFFECTS: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. **Potential Chronic Health Effects**

MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

by Overexposure:

Skin Contact

Inhalation

Ingestion

Medical Conditions Aggravated: Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure /Signs/Symptoms : Not available.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

: Wash with soap and water. Cold water may be used. Get medical attention if irritation develops.

In case of prolonged (hours) inhalation, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

: Do not induce vomiting unless directed to do so by medical personnel. 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.

: Not available. Notes to Physician

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Section 5. Fire Fighting Measures

Flammability of the Product

: Non-flammable according to HCS and WHMIS.

Autoignition Temperature

Not available.

Flash Points

: CLOSED CUP: >99°C (210.2°F). (Tagliabue.)

Flammable Limits

Various Substances

: Not available.

Products of Combustion

: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of

: Not available.

Explosion Hazards in Presence of Various Substances

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions

Use extinguishing media suitable for surrounding materials.

Protective Clothing (Fire)

: Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire

Hazards

: Not available.

Special Remarks on Explosion

: Not available.

Hazards

Section 6. Accidental Release Measures

Small Spill and Leak

: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill and Leak

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Handling

- : When manipulating large quantities, avoid breathing vapors or spray mists.
- Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls, Personal Protection

Engineering Controls

: When manipulating large quantities, provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protection

Eyes: Safety glasses. Body: Lab coat.

Respiratory: Not required. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Not required. Use latex gloves if prolonged or frequent contact occur.

Feet: Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of a : Large Spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Product Name

Exposure Limits

Low Fog Fluid (Based on data for the main ingredient).

AIHA WEEL (United States, 2000). TWA: 10 mg/m³ Form: Aerosol TWA: 50 ppm Form: Total

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Section 9. Physical and Chemical Properties

Physical State and Appearance: Liquid. Color : Colorless. Odor Characteristic. Taste : Not available. Molecular Weight : Not applicable. Molecular Formula : Not applicable. pH (1% Soln/Water) : 3.8 [Acidic.]

Boiling/Condensation Point : 187 to 188°C (368.6 to 370.4°F) Melting/Freezing Point : Weighted average: -53.95°C (-65.1°F)

Critical Temperature : Not available. **Specific Gravity** 1.044 (Water = 1)

Vapor Pressure : 0.009 kPa (0.07 mmHg) (at 20°C)

Vapor Density 2.6 to 0 (Air = 1)Volatility : 100% (w/w). **Odor Threshold** Not available.

: 0.01 compared to Butyl acetate. **Evaporation Rate**

VOC : 90 (%)

: Dynamic: 15 cP Viscosity Not available. LogKow **Ionicity (in Water)** : Amphoteric.

Dispersion Properties See solubility in water, methanol, acetone.

Solubility : Easily soluble in cold water, hot water, methanol, acetone.

Physical Chemical Comments : Not available.

Section 10. Stability and Reactivity

Stability and Reactivity : The product is stable.

Conditions of Instability : Not available.

Incompatibility with Various : Reactive with oxidizing agents, acids.

Substances

Hazardous Decomposition : None known. **Products**

: Will not occur. **Hazardous Polymerization**

Section 11. Toxicological Information

Toxicity Data

Ingredient Name Test Result **Route Species**

Not available.

Chronic Effects on Humans : CARCINOGENIC EFFECTS: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Other Toxic Effects on Humans : Slightly hazardous in case of eye contact (irritant), of inhalation (lung irritant).

Non-irritant for skin.

Special Remarks on Toxicity to : Not available.

Animals

Special Remarks on Chronic

Effects on Humans

: Not available.

Special Remarks on Other Toxic: Not available.

Effects on Humans

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Section 12. Ecological Information

Ecotoxicity Data

Ingredient Name Species Period Result

Not available.

BOD and COD : Not available.

Biodegradable/OECD : Not available.

Mobility : Not available.

Products of Degradation
Toxicity of the Products of

Toxicity of the Products of Biodegradation

: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation

: These products are carbon oxides (CO, CO₂) and water.

Section 13. Disposal Considerations

: Not available.

Waste Information : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream : Not available.

Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
DOT Classification	Not regulated.	Not applicable.	Not applicable.	Not applicable.		-
TDG Classification	Not regulated.	Not applicable.	Not applicable.	Not applicable.		-
IMDG Class	Not regulated.	Not applicable.	Not applicable.	Not applicable.		-
IATA-DGR Class	Not regulated.	Not applicable.	Not applicable.	Not applicable.		-

Section 15. Regulatory Information

HCS Classification

: Not controlled under the HCS (United States).

U.S. Federal Regulations

: TSCA 8(b) inventory: Components listed.

SARA 302/304/311/312 extremely hazardous substances: Not listed.

SARA 302/304 emergency planning and notification: Not listed. SARA 302/304/311/312 hazardous chemicals: Not Listed.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Not listed.

SARA 313 toxic chemical notification and release reporting: Not listed.

Clean Water Act (CWA) 307: Not listed. Clean Water Act (CWA) 311: Not listed.

Clean Air Act (CAA) 112 accidental release prevention: Not listed.
Clean Air Act (CAA) 112 regulated flammable substances: Not listed.
Clean Air Act (CAA) 112 regulated toxic substances: Not listed.

State Regulations

California Prop. 65: Not listed.

WHMIS (Canada)

: Not controlled under WHMIS (Canada).

CEPA DSL: Components listed.

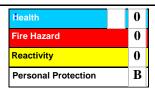
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. The MSDS contains all the information proposed in the American National Standard Institute Z400.1.

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Section 16. Other Information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



References : Not available.

Other Special Considerations : Not available.

Date of printing : 10/11/2002.

Date of issue : 10/11/2002.

Date of Previous Issue : No Previous Validation.

Version : 6

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