

Material Safety Data Sheet



MDG Neutral Fluid

Section 1. Chemical Product and Company Identification

Common Name	: MDG Neutral Fluid	Code	: NF-B4, NF-C25, NF-D205
Supplier/ Manufacturer	: MDG Fog Generators Ltd. 5639 Christophe-Colomb, Montréal, QC H2S 2E8	MSDS#	: Not available.
Synonym	: Not available.	Validation Date	: 10/11/2002.
Trade name	: Not available.	Print Date	: 10/11/2002.
Material Uses	: Mineral oil based fog fluid.	Responsible Name	: Kemika
		In Case of Emergency	: Canada: CANUTEC-1-613-996-6666 US: CHEMTREC-1-800-424-9300

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
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No hazardous ingredient.

Section 3. Hazards Identification

Physical State and Appearance : Liquid. (Viscous liquid.)

Emergency Overview : No specific hazard.

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

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.

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

Medical Conditions Aggravated by Overexposure : 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. Get medical attention if irritation occurs.

Skin Contact : Wash with soap and water. Get medical attention if irritation develops.

Inhalation : 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.

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Notes to Physician : Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	: Non-flammable according to HCS or WHMIS.
Autoignition Temperature	: >345°C (653°F)
Flash Points	: OPEN CUP: >171°C (339.8°F) (Cleveland.).
Flammable Limits	: Not available.
Products of Combustion	: Not available.
Fire Hazards in Presence of Various Substances	: 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	: SMALL FIRE: Use dry chemical powder or carbon dioxide. LARGE FIRE: Use water spray, fog or foam, or carbon dioxide. Do not use water jet.
Protective Clothing (Fire)	: Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	: Not available.
Special Remarks on Explosion Hazards	: Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	: Absorb with an inert material and put the spilled material in an appropriate waste disposal
Large Spill and Leak	: Absorb with an inert material and put the spilled material in an appropriate waste disposal. 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.

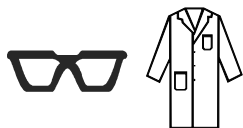
Section 8. Exposure Controls, Personal Protection

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. Ensure that eyewash stations and safety showers are proximal to the work-station on location.
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Personal Protection

Eyes	: Safety glasses.
Body	: Lab coat.
Respiratory	: Not required. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Hands	: 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.
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Product Name

MDG Neutral Fluid (Based on data for the main ingredient).

Exposure Limits

ACGIH TLV (United States).
TWA: 5 mg/m³
OSHA PEL 1989 (United States).
TWA: 5 mg/m³
ACGIH TLV (United States).
STEL: 5 mg/m³

Section 9. Physical and Chemical Properties

Physical State and Appearance	: Liquid. (Viscous liquid.)
Color	: Colorless.
Odor	: Odorless.
Taste	: Not available.
Molecular Weight	: Not available.
Molecular Formula	: Not available.
pH (1% Soln/Water)	: Not applicable.
Boiling/Condensation Point	: >287°C (548.6°F)
Melting/Freezing Point	: Not available.
Critical Temperature	: Not available.
Specific Gravity	: 0.85 (Water = 1)
Vapor Pressure	: <0.001 kPa (<0.01 mmHg) (at 20°C)
Vapor Density	: Not available.
Volatility	: <1% (v/v). <1% (w/w).
Odor Threshold	: Not available.
Evaporation Rate	: Not available.
VOC	: <1 (g/l).
Viscosity	: Dynamic: 15 cP
LogK_{ow}	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: See solubility in water, n-octanol.
Solubility	: Easily soluble in n-octanol. Insoluble in cold water, hot water.
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 Substances	: Not available.
Hazardous Decomposition Products	: None known.
Hazardous Polymerization	: Will not occur.

Section 11. Toxicological Information

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), or prolonged (hours) inhalation (lung irritant). Non-irritant for skin.
Special Remarks on Toxicity to Animals	: Not available.
Special Remarks on Chronic Effects on Humans	: Not available.
Special Remarks on Other Toxic Effects on Humans	: Not available.

Section 12. Ecological Information

Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Not available.			
BOD and COD			: Not available.
Biodegradable/OECD			: Not available.
Mobility			: Not available.
Products of Degradation			: These products are carbon oxides (CO, CO ₂) and water.

Toxicity of the Products of Biodegradation : The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation : Not available.

Section 13. Disposal Considerations

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 : No ingredient was found.

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.

Section 16. Other Information

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

Health	1
Fire Hazard	0
Reactivity	0
Personal Protection	B

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



References : Not available.

Other Special Considerations : Not available.

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Version : 8

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.