

Safety Data Sheet: Fog It

1. IDENTIFICATION

Product Name: Fog-It
Other Names: None
Recommended Use: Fogging Concentrate
Distributor: Key Industries Ltd
Address: PO Box 65 070 Mairangi Bay, Auckland 0754
Telephone: 09 917 1791
Emergency Phone: 027 4941659
National Poisons Centre: 0800 764 766

2. HAZARDS IDENTIFICATION

Hazard Classification: 3.1D, 6.1E, 6.3B, 8.3A, 9.1D

Hazards: Combustible Liquid
May be harmful if swallowed and enters airways.
Causes mild skin irritation.
Causes serious eye damage.
Harmful to aquatic life.

3. COMPOSITION: Information on Ingredients

Ingredient	CAS Number	Concentration (%w/w)
Ethoxylated alcohol	68439-49-6	≤10
Proprietary ingredients not requiring disclosure	Proprietary	To 100%

4. FIRST AID MEASURES

Consult the National Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

Swallowed

If swallowed, do not induce vomiting because of risk of aspiration of lungs with hydrocarbon solvent and chemical pneumonitis. If conscious and alert, rinse mouth and drink 1-2 cupfuls of water. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Skin Contact

Immediately wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Seek medical attention.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do and continue rinsing. Do NOT allow victim to rub eyes or keep eyes closed. Obtain urgent medical attention.

Inhalation

Move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Obtain medical attention.

First Aid facilities

Provide eye baths and safety showers close to areas where exposure may occur.

Medical Attention

Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

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Suitable extinguishing media

Water fog, alcohol resistant foam, dry chemical powder or carbon dioxide may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation.

Do not use water stream directly as this may spread fire. Cool fire exposed container with water spray.

Hazards from combustion products

Decomposition from combustion will emit fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion..

Precautions for fire fighters and special protective equipment

Full protective clothing with chemical goggles, butyl or neoprene gloves and self-contained breathing apparatus

Hazchem Code

None

Flash Point

80.4°C

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment vessel or bunded area. Prevent any vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up minor spills immediately.

Methods and materials for containment for a major spill

Eliminate sources of ignition. Warn occupants of downwind areas of possible hazards. Keep the public away from the area. Prevent product from entering sewers, watercourses, or low-lying areas. Shut off the source of the spill if safe to do so. Advise relevant authorities if substance has entered a watercourse or sewer. Take measures to minimise the effect on the groundwater. If possible recover product using a pump paying attention to flammability hazards or absorbent material. Collect and seal in properly labelled containers for disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. In all instances due consideration must be given for First Aid Measures (Section 4), PPE requirements (Section 8), Stability and Reactivity (Section 10) for this material.

7. HANDLING AND STORAGE

Precautions for safe handling

Keep out of reach of children. Keep containers closed. Avoid sources of ignition including smoking. Use only in well-ventilated areas. When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before reuse.

Conditions for safe storage

Store in a cool, dry place away from direct sunlight. Keep away from heat and ignition sources. Store in original containers. Protect from physical damage to prevent accidental release. Do not store with food, feedstuffs, fertilizers and seeds.

Incompatible materials

Natural Rubbers.

8. EXPOSURE CONTROLS: Personal Protection

Exposure Limits

143 ppm (1200 mg/m³) based on total product for an 8-hour workday based on recommendations from solvent manufacturer

Engineering Controls:

The use of local exhaust ventilation is recommended to control process emissions near the source. Sufficient ventilation should be provided to keep the solvent in air concentrations below any relevant exposure limit. Provide mechanical ventilation of confined spaces. Explosion proof electrical equipment recommended but not required based on the flashpoint of this material.

Hygiene Controls:

Facilities storing or utilising this material should be equipped with an eyewash facility, safety shower and facility for washing hands/face after work.

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Personal Protective Equipment

Respiratory Protection: When handling this material it is recommended to use an approved respirator or half face mask complying with OSH and other relevant standards

Eye protection: Always use safety glasses or a chemical goggles when handling this product. Contact lenses may absorb and concentrate irritants, glasses are recommended.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear of safety boots when handling this product. It is recommended that chemical resistant gloves (eg nitrile, neoprene) be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid with light odour
Boiling Point (°C):	207 – 240 (based on solvent)
Melting Point(°C):	Not applicable
Flash Point(°C):	80.4
SG/ Density, 20°C (g/mL):	0.80 – 0.82
Vapour Pressure, 20°C (kPa):	<0.01
Alkalinity/ acidity as pH:	Not applicable
Solubility in water:	Emulsifies

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult Key Industries.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure.

Hazardous decomposition products

Toxic and dangerous compounds of carbon dioxide and carbon monoxide.

Specific Materials to Avoid

Strong acids, alkalis, oxidising agents, reducing agents and heat.

Hazardous Polymerisation

Not known to occur.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion: Product has a low order of acute oral toxicity. Aspiration of the lungs can occur during vomiting leading to lung damage or death due to chemical pneumonitis. Contact a doctor if symptoms occur after ingestion.

Eye Contact: The liquid may be irritating to the eyes and may result in corneal injury.

Skin Contact: The liquid is discomforting to the skin if exposure is prolonged and is capable of causing skin reactions which may lead to irritation, redness or dermatitis.

Inhalation: The vapour/mist is discomforting to the upper respiratory tract and lungs. Acute effects from inhalation of high vapour concentrations may cause effects similar to that of ingestion.

Chronic Effects

Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes.

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis. Persons with pre-existing conditions are advised to limit or avoid product contact.

Other Health Effects Information

Not Available.

Toxicological Information

Oral LD₅₀: >5000 mg/kg based on hazard classifications

Dermal LD₅₀: >5000 mg/kg based on hazard classifications

Inhalation LC₅₀: >5 mg/L based on hazard classifications

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12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is harmful to the environment. See hazard classifications in section 15 of this document. No specific ecological data available on this product.

Persistence/ Biodegradability: Components of this product which are hazardous to the environment are expected to be biodegradable. Not likely to be bioaccumulative.

Mobility: This product is not readily soluble with water limiting its mobility in the environment. This product is likely to have low mobility in the environment and low leaching potential

Aquatic Toxicity:

Fish toxicity LC₅₀: 35 mg/L (product, estimated)

Daphnia Magna EC₅₀: 200 mg/L (product, estimated)

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of product only by using according to label or using an approved waste disposal contractor. If this material as supplied becomes a waste care should be taken to ensure compliance with national and local authorities. It is the responsibility of the waste generator to determine the toxicity and physical properties of the waste generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Do not dispose of via municipal sewers, drains, natural streams or rivers

Packaging Disposal

Triple rinse container and add rinsate to the spray tank. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Incinerate via approved incinerators or crush and bury in an approved landfill. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

14. TRANSPORT INFORMATION

UN No:	None
Proper Shipping Name:	Not applicable
DG Class:	Not applicable
Subsidiary Risk:	
Packing Group:	Not applicable
Hazchem Code:	Not applicable

Dangerous Goods Segregation

This product is not classified as Dangerous Goods by Road and Rail. Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:1999 Transport of Dangerous Goods on Land for further information.

15. REGULATORY INFORMATION

Country/ Region: New Zealand

ACVM Approval Number:

ERMA Approval Number: HSR002503

HSNO Classifications: 3.1D Combustible Liquid, 6.1E Acute Toxicity (Aspiration); 6.3B: Skin Irritant; 8.3A Eye Corrosive; 9.1D Aquatic Ecotoxicant;

HSNO Controls:

Trigger Quantities for this Material:

- Location/Transit Depot Certificate: Not Required
- Hazardous Atmosphere Zone: Not Required
- Signage: 1000 L
- Emergency Plan, Secondary Containment: 10,000L
- Tracking: Not required

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The trigger quantities above must take into account any other hazardous substance that is present at that location. This represents a partial list of the controls for this material. Contact Key Industries Ltd a full list of HSNO controls.

16. OTHER INFORMATION

Reasons for Issue:

Update format and review.

Abbreviations:

TWA - the highest allowable exposure concentration in an eight-hour day for a five-day working week

STEL - maximum allowable exposure concentration at any time

CAS Number: Chemical Abstracts Number

ERMA: Environmental Risk Management Authority

HSNO: Hazardous Substances and New Organisms

References:

- Supplier Safety Data Sheets
- Hazardous Substances Databank
- ERMA Chemical Classification Information Database
- FOOTPRINT Pesticides Database
- Sax's Dangerous Properties of Industrial Materials, 11th Ed, 2007
- Synapse Chemlib Handbook of Solvents

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the suppliers knowledge. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Key Industries Limited.