Material Safety Data Sheet

Kool Mist Formula 78

Section 1  Product / Company Identification

Product Trade Name  Kool Mist Formula 78  MSDS Number  KM-078 (rev. 01)
Synonym / Use  Light duty coolant for spray mist systems  Date of Issue  July 12, 2010
Chemical Name  Mixture
Chemical Formula  Trade Secret

Manufacturer  Kool Mist  Technical Support  (562) 246-0949
              9218 Norwalk Blvd.
              Santa Fe Springs, CA 90670  Website  www.koolmist.com
              U.S.A.
              CHEMTREC  (800) 424-9300
              Outside the US Call  (703) 741-5500

Section 2  Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Weight (%) Non-Diluted</th>
<th>Weight (%) Diluted</th>
<th>TLV (ACGIH)</th>
<th>PEL (OSHA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carboxylic acid salt</td>
<td>688188-07-04</td>
<td>30 – 60</td>
<td>&lt; 2</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>20 – 40</td>
<td>&gt; 98</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>20 – 40</td>
<td>&lt; 1</td>
<td>5 mg/m3</td>
<td>None</td>
</tr>
<tr>
<td>Polyalkylene glycol monobutyl ether</td>
<td>9038-95-3</td>
<td>1 – 5</td>
<td>&lt; 0.1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

TLV = Threshold Limit Value; PEL = Permissible Exposure Limit

Section 3  Hazards Identification

EMERGENCY OVERVIEW

This product is considered non-hazardous under normal conditions of use. Excessive exposure to mist may cause sore throat, coughing and mild upper respiratory irritation. Prolonged skin contact with undiluted product may result in transient dryness and mild irritation. Wash hands and exposed skin with mild soap and water after each exposure.

NFPA Rating  Health  1  Fire  0  Reactivity  0  Special Hazard  0
HMIS Rating  Health  1  Fire  0  Reactivity  0  PPE Code  A

WHMIS Class  None
Hazard Category  None

Routes of Entry  Absorbed through skin. Inhalation and eyes via mist. Ingestion.
Target Organs  Lungs, respiratory system, and eyes.
## Section 3  Hazards Identification

### Signs and Symptoms of Overexposure

**Inhalation**
Excessive inhalation of product mist may cause mild irritation.

**Skin Contact**
Essentially non-irritating to the skin. Prolonged exposure to undiluted product may cause mild irritation and dryness.

**Eye Contact**
Mist may cause mild eye irritation in sensitive individuals.

**Ingestion**
Non-hazardous when ingested. May cause mild irritation to the gastro-intestinal (GI) tract if excessive quantities are ingested.

**Medical Conditions Aggravated by Exposure**
In sensitive individuals certain medical conditions may be aggravated by prolonged exposure, including dry skin and/or dermatitis, and pre-existing chronic upper respiratory diseases such as bronchitis, emphysema and asthma.

## Section 4  First Aid Measures

### Inhalation
Remove to fresh air. If coughing and irritation develop seek medical attention.

### Eye Contact
Flush with large amounts of water until irritation subsides, at least 15 minutes. Seek medical attention if irritation persists.

### Skin Contact
Perform normal, good hygiene practices. Wash hands and exposed skin with mild soap and water after each exposure.

### Ingestion
Emergency first-aid procedures are not normally required following ingestion. However, this product may cause temporary irritation to the gastro-intestinal (GI) tract if excessive quantities are ingested. DO NOT INDUCE VOMITING unless directed by a physician.

### Note to Physician
Kool Mist Formula 78 is a water soluble synthetic soap compound used as an industrial metal working lubricant. It has low general toxicity and irritancy.

## Section 5  Fire Fighting Measures

### NFPA Classification
Not classified by the National Fire Protection Agency (NFPA).

### Flammable Properties and Explosive Limits

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Non-flammable.</td>
</tr>
<tr>
<td>Autoignition</td>
<td>Non-flammable.</td>
</tr>
<tr>
<td>UFL / UEL</td>
<td>Non-flammable.</td>
</tr>
<tr>
<td>LFL / LEL</td>
<td>Non-flammable.</td>
</tr>
</tbody>
</table>

### Extinguishing Media
Dry chemical, carbon dioxide (CO₂), water fog, or foam.

### Fire / Explosion Hazard
Non-flammable. This product will not support combustion and does not pose a significant fire and/or explosion hazard.

### Special Firefighting Equipment
No special firefighting equipment is necessary. Use extinguishing media appropriate for the surrounding fire.

### Hazardous Products of Combustion
None.
Section 6   Accidental Release Measures

Personal Precautions

In the event of a spill, comply with applicable health, safety and environmental regulations. Eliminate sources of ignition and ventilate the area. Selection and use of personal protective equipment should be in accordance with Section 8 (Exposure Controls / Personal Protection).

Environmental Precautions

Environmental precautions are not normally required. This product does not pose a significant environmental hazard.

Clean-Up Procedures

Spills may be cleaned using water. Thoroughly rinse the affected area avoiding sewers and drains. Absorb remaining material and place in an approved hazardous waste container. Dispose of in accordance with Section 13 (Disposal Considerations) of this MSDS.

Section 7   Handling and Storage

Handling Precautions

Specific handling precautions are not required. Avoid prolonged contact with undiluted product. Assure proper respiratory protection when using this product and/or when cleaning spills. Refer to Section 8 (Exposure Controls / Personal Protection) for further information.

Storage Requirements

Store in a cool, dry area below 100° F. Store away from food and beverages. Keep away from reactive materials Always separate materials by hazard class. Refer to Section 10 (Stability and Reactivity) for incompatibility information and conditions to avoid.

Section 8   Exposure Controls / Personal Protection

Engineering Controls

Maintain sufficient mechanical or natural ventilation. Use local exhaust if necessary.

Occupational Exposure Limits

Triethanolamine (102-71-6): TWA: 5 mg/m3 from ACGIH (TLV)

Respiratory Protection

None required under normal conditions of use. Selection and use of proper respiratory protection should be based on the level of exposure as measured by vapor sampling. Use OSHA 29 CFR 1910.134 or ANSI Z88.2 approved face masks, if required.

Eye Protection

Wear safety glasses with side shields or splash goggles when applying product. Selection and use of eye protection should comply with ANSI Z87.1-1-1989 and applicable OSHA standards.

Skin Protection

Under normal conditions, protective gloves and a clean body covering are sufficient when handling undiluted product.

Section 9   Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance / Color</td>
<td>Green viscous liquid</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.104</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>212° F (100° C)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild, pleasant odor</td>
</tr>
<tr>
<td>Odor Threshold (ppm)</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting / Freezing Point</td>
<td>N/A</td>
</tr>
<tr>
<td>pH (1% soln/water)</td>
<td>8</td>
</tr>
<tr>
<td>Vapor Density (air = 1)</td>
<td>&gt;1</td>
</tr>
</tbody>
</table>
Section 9  Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (g/ml)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>23.0 hPa</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>100%</td>
</tr>
<tr>
<td>% Volatile by Vol. / Wt.</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Section 10  Stability and Reactivity

Stability: Stable under normal conditions of use.

Incompatibility: Avoid contact with strong oxidizing agents. Keep away from nitrites which may result in nitrosamine formulation.

Conditions to Avoid: None in designed use.

Hazardous Polymerization: Will not occur.

Hazardous Products of Decomposition: When heated to decomposition product may release CO, CO₂ and irritating aldehydes. Fumes can react with oxidizing materials forming NO and NO₂.

Section 11  Toxicological Information

Acute / Chronic Exposure: Excessive exposure may cause a sore throat, coughing and mild upper respiratory irritation. Prolonged skin contact with undiluted product may result in dryness and mild irritation.

Toxicological Data on Ingredients

<table>
<thead>
<tr>
<th>LC₅₀ / LD₅₀</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral (LD₅₀)</td>
<td>5846 mg/kg [Mouse]</td>
</tr>
<tr>
<td>Oral (LD₅₀)</td>
<td>2200 mg/kg [Rabbit]</td>
</tr>
<tr>
<td>Skin (LD₅₀)</td>
<td>20 ml/kg [Rabbit]</td>
</tr>
</tbody>
</table>

Carcinogenicity: Triethanolamine, CAS No.: 102-71-6: IARC: Group 3 (Not Classifiable)

Synergistic Products: No relevant information exists regarding the toxicological interactions of this product.

Irritancy of Product: Product has a low degree of irritancy.

Sensitization: Non-sensitizing.

Teratogenicity: Non-teratogenic.

Mutagenicity: Non-mutagenic.

Reproductive Toxicity: No additional information is available. This product is not expected to cause adverse reproductive system effects.

Section 12  Ecological Information

Ecotoxicity: Product does not pose a significant environmental hazard.

Mobility: No additional information is available.

BOD5 / COD: No additional information is available.

Biodegradation: No additional information is available.
Section 13  Disposal Considerations

Disposal Method  May be disposed in an approved landfill in accordance with local, state and federal regulations. If this product has become contaminated in service, place in an approved hazardous waste container. Seal and properly label the container, and send to a Transportation, Storage and Disposal (TSD) facility via an approved waste hauler.

Section 14  Transportation Information

U.S. Department of Transportation (DOT)

Shipping Name  Not a U.S. Department of Transportation (DOT) controlled substance.

Hazard Class  N/A  UN / NA Number  N/A

Label / Placard  N/A  Packing Group  N/A

International Dangerous Goods Information

TDG / TDGA  Not regulated as a dangerous good according to the Canadian Transportation of Dangerous Goods (TDG) Act.

IMO / IMDG  Not regulated as a dangerous good according to the International Maritime Organization’s (IMO) dangerous goods code.

ICAO  Not regulated as a dangerous good according to the International Civil Aviation Organization (ICAO) technical instructions.

Special Provisions  This product does not require special transport provisions.

Section 15  Regulatory Information

TSCA (8b) Inventory  All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ)  This product does not contain any hazardous substances in excess of the CERCLA de minimis reportable quantity.

California Prop. 65  This product does not contain any substances known to the State of California to cause cancer.

State RTK Lists  Triethanolamine, (CAS No.: 102-71-6): MA, MN, PA, RI

Superfund Amendments and Reauthorization Act (SARA) Title III

Section 302 / 304  This product does not contain any Extremely Hazardous Substances (EHS) as defined and listed under SARA Title III, Sections 302 and 304:

Section 311 / 312  The following Hazard Categories are applicable to this product, as defined and listed under SARA Title III, Sections 311 and 312:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>
Section 15 Regulatory Information

Superfund Amendments and Reauthorization Act (SARA) Title III

Section 313 This product does not contain any substances subject to the reporting requirements of SARA Title III, Section 313.

International Regulatory Classifications

WHMIS (Canada) This product does not contain any substances controlled under the Canadian Workplace Hazardous Materials Information System (WHMIS).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all information required by those regulations.

DSL (Canada) All materials and ingredients used in this product are listed, or exempt from inclusion on the Canadian Domestic Substances List (DSL).

EINECS (EC) All materials and ingredients used in this product are listed, or exempt from inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS).

WGK (Germany) Water Hazard Class: WGK 1: Slightly hazardous to water

European Labeling in Accordance with EC Directives

Hazard Symbols Xi: Irritant

Risk Phrases R36/37/38: Irritating to the eyes, respiratory system and skin.

Safety Phrases S2: Keep out of reach of children
S24/25: Avoid contact with skin and eyes
S36/37: Wear suitable protective clothing and gloves

Section 16 Other Information

Reason for Issue New MSDS Date of Issue July 12, 2010
Prepared By Compliance Consulting Group, Inc. Supersedes All previous
Revision History Rev. 01 (July 12, 2010): ANSI Z400.1-2004 MSDS. Complies with OSHA 29 CFR 1910.1200(g), EC and WHMIS requirements.

DISCLAIMER

As of the date of this document, Kool Mist believes the information contained herein to be accurate and reliable, and is provide in order to comply with applicable Federal, State and international regulations. This document in intended as a guide for the safe handling, storage and use of this material under normal conditions of use. No representation, warranty or guarantee, either express of implied, is intended or given. Kool Mist does not accept liability for any loss, injury or damage resulting from the use of this product.