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EFFECTIVE DATE:
1/15/04

MATERIAL SAFETY DATA SHEET

Chemical Name and Synonyms: *JT-Kool 102*

Propylene Glycol
1,2 Propanediol
Propanediol-1, 2
1, 2-Dihydroxypropane

Chemical Family: Oxygenated Hydrocarbon

S.A.R.A. Information:

Hazards: Not Available
Physical Data: Not Available

Section 1: Hazardous Ingredients

| Ingredient CAS Number | Max % W/W | SARA Applies | | | Air Contaminant Levels | | | |
|--|-----------------|-----------------|-----|-----|---------------------------------------|---------------|--------------|---------------|
| | | 312 | 313 | 372 | TWA/TL (ppm) | STEL (ppm) | CEI (ppm) | Skin Agent |
| Propylene Glycol 1,2 Propanediol (CAS # 57-55-6) | 90-95% | Y | N | N | Industry Recommendation TWA 400ppm | | | |
| Sodium Hydroxid-50% (CAS # 1310-73-2) | <1% | | | | 2 mg/m ³ | | | |

Section II: Health Hazards

Potential Effects of Exposure:

Eyes: Eye contact with product may cause irritation, redness

Skin: Skin contact may cause irritation. Prolonged or repeated skin contact may cause irritation, redness, defatting

Inhalation: Inhalation may cause irritation, headache, nausea, drowsiness.

Ingestion: Ingestion may cause nausea, diarrhea.

Target Organs

Overexposure may cause damage to, disorders of, or adversely affect the following systems, functions, organs: None currently known

FIRST AID:

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION: Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION: Do not induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call a physician immediately.

OTHER INFORMATION:

Routes of entry: Eye contact, skin contact, inhalation

Overexposure may aggravate disorders of the: Skin

SECTION III: SPECIAL PROTECTION**PROTECTIVE EQUIPMENT:**

Eyes: Chemical goggles. Always wear eye protection when working with chemicals. Do Not wear contact lenses when working with chemicals.

Skin: Impervious gloves, clean body covering clothing

Inhalation: If exposure limits are exceeded, or if exposure may occur, use a NIOSH/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSH publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSH/MSHA approved positive pressure breathing apparatus should be readily available.

Ventilation Required: Adequate ventilation is required to minimize exposure or to maintain exposure levels below OSHA/ACGIH requirements.

Additional Protective Measures: Safety shower, eye wash fountain and washing facilities should be readily available.

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method): > or = 214°F (TCC)

Flammable Limits (% Volume in Air) Upper: 12.5 Lower: 2.6

HMIS INFO:

Health: 0 Fire: 1 React: 0 Special: X

NFPA INFO:

Health: 0 Fire: 1 React: 0 Special:

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical

Fire Fighting Procedures: Prevent human exposure to fire, fumes, smoke and products of combustion. Evacuate non-essential personnel. Firefighters should wear full face, self-contained breathing apparatus and impervious protective clothing. Water or foam may cause frothing. Use water to cool containers exposed to fire.

Unusual Fire and Explosion Hazards: Vapor may travel a considerable distance to a source of ignition and flash back.

SECTION V: PHYSICAL DATA

Boiling Point: > or = 365°F

Freezing Point: -76°F

Specific Gravity (H₂O=1): > or = 1.04 @ 68°F

Vapor Pressure (MM HG.): 0.100 @ 68° F

Vapor Density (Air = 1): > or = 2.6000

Evaporation Rate (N-Butyl Acetat=1): <0.0050

Solubility in Water: Complete

Percent Volatile by Volume: Not Determined

pH: aqueous approx. 12.5

Appearance: Colorless to lightly colored liquid

Odor: Mild

SECTION VI: REACTIVITY DATA

Stability: Stable

Incompatibility: None currently known.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, miscellaneous organic compounds, some possibly toxic.

Hazardous Polymerization: Will not occur

SECTION VII: SPILL AND LEAK PROCEDURES

Steps to be taken if material is released or spilled: In case of spills: Contain and dispose of in accordance with Federal, State and Local regulations. Sweep, shovel, or pick up and return to dry, clean container. Flush spill area with water.

Disposal Method: Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable regulations under the Resource Conservation and Recovery Act. Dispose of material in accordance with all Federal, State, and Local regulations. Local regulations may be stringent than Federal or State.

SECTION VIII:

Hazard Class: Unclassified

Label Requirements: None

Reportable Quantity: None

SECTION IX: ADDITIONAL INFORMATION

Precautions: Wear protective equipment when handling. Use only with adequate ventilation. Wash thoroughly after handling. Do not breathe vapor or mist. Do not get in eyes or on skin. Do not swallow.

Handling: Attention: This container is hazardous when emptied. Since emptied container contains product residues (vapor or liquid), all labeled hazard precautions must be observed.

Storage: Keep container closed when not in use. Store in a cool dry place. Store in accordance with NFPA requirements. Keep out of reach of children.

SECTION X: COMPLIANCE INFORMATION

TSCA Inventory Status: Listed

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