

KOSTChill PG FG - MSDS

Section I – Chemical Product and Company Information

Product Name: KOSTChill PG FG
Product Code: 2548
Product Use: Heat Transfer Fluid

Preparation Date: 11/14/05
Revision Date: 6/6/07

Manufacturer: KOST USA, INC.
Address: 8118 Corporate Way, Suite 105
Mason, OH 45040

Telephone: (513) 583-7070
Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components	CAS Number	%	PEL (OSHA)	TLV (ACGIH)
Propylene Glycol*	57-55-6	70-100	-	-

* Propylene glycol has an AIHA Workplace Environmental Exposure Level (WEEL):
Vapor and Aerosol = 50 ppm; Aerosol only = 10 mg/m³

This product is not a WHMIS controlled substance.

Section III Physical/Chemical Characteristics

Boiling Point: 367°F – 372°F (186°C – 189°C)
Specific Gravity: 1.051 @ 60°F (15.5°C)
Vapor Pressure @ 20°C: 10 Pa
Solubility in Water: Soluble
Appearance and Odor: Clear liquid, Odorless
Freezing Point: -74°F (-59°C)
pH: 8.5 – 9.5

Section IV Fire & Explosion Data

Flash Point: 210°F (99°C)
Method Used: PMCC
Flammable Limits in air % by volume: 2.6 – 12.6% (V)

Auto-Ignition Temp: 790°F (421°C)
 UEL: N/A
 LEL: N/A

Extinguisher Media: Carbon dioxide, dry chemical, or alcohol resistant foam

Special Firefighting Procedures: Use carbon dioxide, dry chemical alcohol resistant foam. Do not use a direct stream of water.

Unusual Fire and Explosion Hazards: Remove all individuals from area who are not properly trained in fire fighting. Material is not a flammable or combustible liquid. Material will not burn unless preheated. When in confined spaces, only enter fire space with full bunker gear (including self contained breathing apparatus) when fighting a fire involving this product. Cool surrounding equipment, fire-exposed containers and structures with water. Container areas exposed to direct flame contact should be cooled with large quantities of water (500 gallons water per minute flame impingement exposure) to prevent weakening of container structure. Keep away from extreme heat and open flame.

National Fire Protection Association (NFPA): Health: 1 Flammability: 1 Reactivity: 0
 Other n/a

Hazardous Materials Identification System (HMIS): Health: 1 Flammability: 1
 Reactivity: 0

Section V Physical Hazards (Reactivity Data)

Stability: Stable X Unstable

Conditions to Avoid: Contact with heat, sparks, flame and all sources of ignition.

Incompatibility: Strong acids, strong bases and oxidizing agents.

Hazardous Decomposition Products: Oxides of carbon, nitrogen and phosphorus.

Hazardous Polymerization: May occur Will not occur X

Section VI Health Hazards

Signs and Symptoms of Exposure

Eyes: May cause eye irritation. Vapors may be moderately irritating to the eye and surrounding tissue.

Skin Absorption: No acute effects known.

Skin Contact: Mild irritant and defatting agent especially on prolonged contact.

Inhalation: Mist or vapors expected to be slightly irritating because of material's low vapor pressure.

Ingestion: This material is relatively non-toxic when ingested. Ingestion of a sizable amount (over 100 mls) may cause some gastrointestinal upset and temporary central nervous system depression. Effects appear more severe in individuals with kidney problems.

Aggravated Medical: Pre-existing medical conditions of the following organ(s) or organ condition system(s) may be aggravated by exposure to this material:
Kidney

Emergency and First Aid Procedures

Eyes: Flush with large amounts of cold water for at least 15 minutes. Do not let victim rub eyes. If irritation develops, contact a physician immediately.

Skin: Wash affected area with soap and water. Do not reuse clothing soaked with this product until laundered. Discard all leather articles which have been soaked with this product. If irritation develops, contact a physician immediately.

Inhalation: If inhaled, move to fresh air. If victim has stopped breathing give artificial respiration, preferably, mouth to mouth. Contact a physician immediately.

Ingestion: Not expected to require first aid measures. Give several glasses of water to drink to dilute. If large amounts were swallowed, contact a physician immediately.

Oral LD 50: > 2,000 mg/kg, Rat

Section VII Special Precautions/ Spill & Leak Procedures

Handling: Avoid breathing this material and getting it in contact with your skin and eyes. Wash hands after handling and before eating. Avoid container damage while handling. Keep out of the reach of children and animals.

Storage: Store in closed, labeled containers in a cool, dry well ventilated area. Maintain closure of bungs. Keep this product away from open flames, sources of heat and ignition sources. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking. Keep face clear of tank or tank car openings. Store at temperatures below 40°C (104°F). Do not reuse container. Avoid container damage while storing.

Spill & Leak Response: Eliminate all sources of ignition in vicinity of spilled material. Do not allow spilled material to enter sewers or streams. Add dry material (such as diatomaceous earth, dry clay or sand) to absorb (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal. Flush area with water to remove residues.

Waste Disposal: All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with Good Engineering Practices. Comply with all applicable governmental regulations. Avoid land filling of liquids. Reclaim where possible.

Section VIII Special Protection Information

Respiratory Protection: If workplace exposure limit is exceeded, use NIOSH approved respirator (either a disposable dust/mist mask breathing apparatus or supplied-air respirator depending upon conditions) for entry into confined space in the absence of proper environmental control.

Protective Gloves: Wear neoprene rubber gloves.

Eye Protection: Chemical goggles. Do not wear contact lenses.

Other Protective Wear: Wear impervious, protective clothing including rubber safety shoes to avoid prolonged or repeated skin contact.

Work Practices: Read label for instructions in use of product.

Section IX Other Hazard Information

None

Carcinogenicity:

NTP: No

IARC: No

ACGIH: No

Section X Transport Information

US Department of Transportation Classification

This material is not subject to DOT regulations under 49 CFR Parts 171 - 180

Canadian TDG Classification: This product is not regulated under the Canadian Transportation of Dangerous Goods Regulations for transport by road and rail

Section XI Additional Regulatory Information

OSHA (Occupational Safety, and Health Administration)
29 CFR 1910.1200 Hazardous Chemical: no

SARA (Superfund Amendment and Reauthorization Act)
Section 311: Hazardous Chemical - no
Immediate - no
Delayed - no
Fire - no
Sudden Release - no
Reactive - no

Section 313: Toxic Chemical – no

TSCA (Toxic Substance Control Act)
All of the ingredients in this product are listed on the TSCA Inventory.

DSL (Domestic Substances List)
All of the ingredients in this product are listed on the Canadian DSL.

California Proposition 65
This product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under the statute.

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