

MATERIAL SAFETY DATA SHEET

Customer's Use



Date-Issued: 01/14/2005
 MSDS Ref. No: ICC-02136
 Date-Revised: 03/03/2005
 Revision No: 1

INTERCOOL P-323**1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: INTERCOOL P-323
GENERAL USE: Heat Transfer Fluid
PRODUCT DESCRIPTION: Inhibited Propylene Glycol
PRODUCT CODE: 227900
PRODUCT FORMULATION NAME: INTERCOOL P-323
CHEMICAL FAMILY: Glycol
GENERIC NAME: Inhibited Propylene Glycol
MANUFACTURER

Interstate Chemical Company, Inc.
 Corporate Headquarters-Hermitage
 2797 Freedland Road
 Hermitage, PA 16148
Contact: F. James Corbett, Dir. of Quality & EH&S
Product Stewardship: 724-981-3771
Transportation: 724-981-3771

24 HR. EMERGENCY TELEPHONE NUMBERS

800-ICC-CHEM

COMMENTS: This product contains propylene glycol which is on the FDA's GRAS (GENERALLY REGARDED AS SAFE) list.

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Propylene Glycol	>95	00057-55-6	
Corrosion Inhibitor	<5		

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

PHYSICAL APPEARANCE: Substance can cause skin, eye, and respiratory tract irritation/burning.

IMMEDIATE CONCERNS: Warning! May be harmful if swallowed. Maybe harmful if inhaled or absorbed through skin. May cause allergic skin reaction. May cause irritation to skin, eyes, and respiratory tract. Affects central nervous system.

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation, pain, eye damage

SKIN: Minor skin irritation and penetration may occur

INGESTION: Relatively non-toxic. Ingestion of sizable amount (over 100ml) may cause some gastrointestinal upset and temporary central nervous system depression. Effects appear more severe in individuals with kidney problems

INHALATION: Vapor inhalation is generally not a problem unless heated or misted.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Remove contaminated clothing. Wash with soap and water. Get medical attention.

INGESTION: Not expected to require first aid measures. Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: (210°F)ASTM D56

FLAMMABLE LIMITS: 2.6 to 12.5

AUTOIGNITION TEMPERATURE: (700°F)

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

OTHER CONSIDERATIONS: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Move exposed containers from fire area, if it can be done without risk. Use water to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid and place in sealed container for disposal.

LARGE SPILL: Ventilate area of leak or spill. Remove all sources of ignition. Contain and recover liquid when possible. Do not flush to sewer.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: When released into water, this material is expected to readily biodegrade.

LAND SPILL: When released into the soil, this material is expected to readily biodegrade.

AIR SPILL: When released into the air, this material is expected to have a half-life between 1 and 10 days.

GENERAL PROCEDURES: Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Protect container from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

HANDLING: Store in adequate storage area at ambient temp.

STORAGE: Store in a cool dry place. Keep from freezing.

STORAGE TEMPERATURE: (20°F) minimum to (150°F) maximum

LOADING TEMPERATURE: (20°F) minimum to (150°F) maximum

LOADING/UNLOADING VISCOSITY: ~20

SHELF LIFE: Greater than one year when stored in its original container at the recommended storage temperature with the bungs closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: Wear suitable protective clothing and gloves.

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Wear protective gloves and clean body-covering clothing. Chemically resistant protective clothing and boots may be required.

OTHER USE PRECAUTIONS: If the exposure limit is exceeded, a half-face respirator with an organic vapor cartridge and particulate filter (NIOSH type P95 or R95 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and particulate filter (NIOSH P100 or R100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. Please note that N series filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Odorless

APPEARANCE: Clear, colorless liquid

COLOR: Colorless

pH: 8.0 to 9.5

PERCENT VOLATILE: Not Determined

VAPOR PRESSURE: ~0.129 mmHg at (77°F)

VAPOR DENSITY: 2.6 (Air=1)

BOILING POINT: (370°F)

FREEZING POINT: < -60°C Freezing Point Chart

SOLUBILITY IN WATER: Miscible

EVAPORATION RATE: <1 (n-Butyl Acetate=1)

DENSITY: 8.64 lbs/gal at (60°F)

SPECIFIC GRAVITY: 1.036 (water=1) at 20°C

VISCOSITY: 20Centipoise at (68°F)

WEIGHT PER VOLUME: 8.64 lbs/gal

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide may form when heated to decomposition. Aldehydes or lactic, pyruvic or acetic acids may also be formed.

INCOMPATIBLE MATERIALS: Heat, flames, ignition sources and incompatibles.

11. TOXICOLOGICAL INFORMATION

GENERAL COMMENTS: Oral rat LD50: 20g/kg. Skin rabbit LD50: 20.8g/kg. Irritation: Eye rabbit/Draize, 500 mg/24H mild. Investigated as a mutagen and reproductive effector.

12. ECOLOGICAL INFORMATION

CHEMICAL FATE INFORMATION: When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into water, this material is expected to readily biodegrade. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Whatever cannot be saved for recovery of recycling should be managed in an appropriate and approved waste disposal facility.

EMPTY CONTAINER: Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated by DOT

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES CHRONIC: NO

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This material is listed on the EPA TSCA Inventory of Chemical Substances

16. OTHER INFORMATION

REASON FOR ISSUE: Revised MSDS

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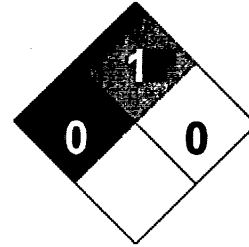
INFORMATION CONTACT: 800-422-2436 x 1156

REVISION SUMMARY Revision #: 1 This MSDS replaces the February 02, 2005 MSDS. Any changes in information are as follows: In Section 1 Section 1 Footnotes

HMIS RATING

HEALTH:	0
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	B

NFPA CODES



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