

MATERIAL SAFETY DATA SHEET

Customer's Use



Date-Issued: 01/18/2005
MSDS Ref. No: ICC-02139
Date-Revised: 03/15/2005
Revision No: 1

INTERCOOL OP-100 30/70**1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: INTERCOOL OP-100 30/70
GENERAL USE: Heat Transfer Fluid
PRODUCT DESCRIPTION: Inhibited Ethylene Glycol
PRODUCT CODE: 229900
PRODUCT FORMULATION NAME: INTERCOOL OP-100 30/70
CHEMICAL FAMILY: Glycol
GENERIC NAME: Inhibited Ethylene Glycol
MANUFACTURER

Interstate Chemical Company, Inc.
 Corporate Headquarters-Hermitage
 2797 Freedland Road
 Hermitage, PA 16148
Contact: Carl Puntureri, Corporate VP
Product Stewardship: 724-981-3771
Transportation: 724-981-3771

24 HR. EMERGENCY TELEPHONE NUMBERS

800-ICC-CHEM

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Ethylene Glycol	~30	000107-21-1	
Deionized Water	~70	007732-18-5	231-791-2
Corrosion Inhibitors and Buffers	<10		
Yellow Dye	<1		

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: This material may be harmful or fatal if swallowed. Lethal dose in humans is 100 ml (3-4 ounces).

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: If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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

NOTES TO PHYSICIAN: Give sodium bicarbonate intravenously to treat acidosis.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

AUTOIGNITION TEMPERATURE: Not Applicable

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.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing.

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

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

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS

<u>Chemical Name</u>	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>	
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Ethylene Glycol						
			TWA			
			50		50	
			ppm ^[1]		ppm ^[2]	

OSHA TABLE COMMENTS:

INTERCOOL OP-100 30/70

Page 3 of 5

1. Ceiling
2. Ceiling (vapor)

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.**9. PHYSICAL AND CHEMICAL PROPERTIES****PHYSICAL STATE:** Liquid**ODOR:** Odorless**APPEARANCE:** Clear, yellow liquid.**COLOR:** Fluorescent yellow.**pH:** 8.0 to 9.5**PERCENT VOLATILE:** 70 at (68°F)**VAPOR PRESSURE:** <15 mmHg at (68°F)**VAPOR DENSITY:** >1 (Air=1)**BOILING POINT:** (218°F)**FREEZING POINT:** (+3°F)**SOLUBILITY IN WATER:** Completely Miscible**EVAPORATION RATE:** <1 (n-Butyl Acetate=1)**DENSITY:** 8.69 lbs/gal at (68°F)**SPECIFIC GRAVITY:** 1.04 (water=1) at (68°F)**WEIGHT PER VOLUME:** 8.69 lbs/gal**10. STABILITY AND REACTIVITY****STABLE:** YES**HAZARDOUS POLYMERIZATION:** NO**CONDITIONS TO AVOID:** Oxidizing materials.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide and Water Vapor**INCOMPATIBLE MATERIALS:** Strong Oxidizers**11. TOXICOLOGICAL INFORMATION****ACUTE****EYES:** 500 mg/24H**ORAL LD₅₀:** 4700 mg/kg (mice)**REPRODUCTIVE EFFECTS:** Has shown teratogenic effects in laboratory animals.**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** Do not flush to sewer.