

~~MSDS~~

Maintenance

# 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**

### 24 HR. EMERGENCY TELEPHONE NUMBERS

800-ICC-CHEM

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

### 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/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u> <u>mg/m<sup>3</sup></u>
Ethylene Glycol					
	TWA	50 ppm <sup>[1]</sup>		50 ppm <sup>[2]</sup>	

**OSHA TABLE COMMENTS:**

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 LD<sub>50</sub>:** 4700 mg/kg (mice)

**REPRODUCTIVE EFFECTS:** Has shown teratogenic effects in laboratory animals.

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** Do not flush to sewer.

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**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Whatever cannot be saved for recovery or 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.

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**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Environmentally Hazardous Substances, Liquids, N.O.S.

**TECHNICAL NAME:** Contains: Ethylene Glycol

**PRIMARY HAZARD CLASS/DIVISION:** 9

**UN/NA NUMBER:** UN3082

**PACKING GROUP:** III

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 5000 lbs

**PLACARDS:** Class 9

**NAERG:** 171

**OTHER SHIPPING INFORMATION:** REGULATED IN BULK ONLY

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**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

DOT Class 9

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** Immediate (Acute) Health Hazard

**PRESSURE GENERATING:** NO **REACTIVITY:** NO **ACUTE:** YES

**313 REPORTABLE INGREDIENTS:** Ethylene Glycol (107-21-1), 60% max.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Ethylene Glycol

**CERCLA RQ:** 5,000 lbs

**REPORTABLE SPILL QUANTITY:** => 5051 lbs

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

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

**STATES WITH SPECIAL REQUIREMENTS**

**Yellow Dye** California Proposition 65:

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**16. OTHER INFORMATION**

**REASON FOR ISSUE:** Revised MSDS

**APPROVED BY:** Jerry Johns **TITLE:** Environmental Analyst

**PREPARED BY:** F. James Corbett

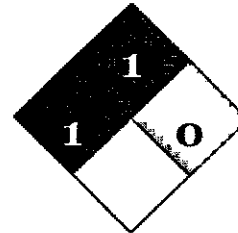
**INFORMATION CONTACT:** 800-422-2436 x 1156

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

**HMIS RATING**

<b>HEALTH:</b>		<b>1</b>
<b>FLAMMABILITY:</b>		<b>1</b>
<b>PHYSICAL HAZARD:</b>		<b>0</b>
<b>PERSONAL PROTECTION:</b>		<b>B</b>

**NFPA CODES**



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