

MATERIAL SAFETY DATA SHEET

Customer's MSDS



Date Issued: 06/22/2006

MSDS No: ICC-02420

Date-Revised: 06/22/2006

Revision No: New MSDS

INTERCOOL OP-100N-50

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: INTERCOOL OP-100N-50

GENERAL USE: Heat Transfer Fluid

PRODUCT CODE: 230700

PRODUCT FORMULATION NAME: INTERCOOL OP-100N-50

MANUFACTURER

Interstate Chemical Company, Inc.
Corporate Headquarters-Hermitage
2797 Freedland Road
Hermitage PA 16148

Emergency Contact: F. James Corbett,
Dir. of Quality & EH&S

Product Stewardship: 800-422-2436

Transportation: 800-422-2436

Alternate Customer Service: 724-981-
3771

24 HR. EMERGENCY TELEPHONE NUMBERS

800-ICC-CHEM

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

EEC LABEL SYMBOL AND CLASSIFICATION



EEC Environment - "N"

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.

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS</u>	<u>EINECS</u>
Ethylene Glycol	~ 50	000107-21-1	
Deionized Water	~ 50	007732-18-5	231-791-2
Corrosion Inhibitors and Buffers	< 10		
Blue Dye	< 1		

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 CFR1910.1200)**EXPOSURE LIMITS**

<u>Chemical Name</u>	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SupplierOEL</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 ppm ^[1] ^[1]		50 ppm ^[2] ^[2]			

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.

WORK HYGIENIC PRACTICES: Establish good personal hygiene and work practices. Always wash hands and face before eating, drinking or smoking. Provide safety shower and eye wash station in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point	Boiling Point (°C)	Freezing Point (°C)	Auto Ignition (°C)	Solubility in Water	Specific Gravity	Specific Volume
Ethylene Glycol	230				Complete	1.113	

PHYSICAL STATE: Liquid

ODOR: Odorless

APPEARANCE: Clear, blue liquid

COLOR: Blue

pH: 8.0 to 9.5

PERCENT VOLATILE: 50 at (60°F)

Notes: Volatile portion is water.

VAPOR PRESSURE: ~ 3.7 mmHg at (68°F)

VAPOR DENSITY: ~ 1.84 (Air=1)

BOILING POINT: ~ (225°F) Boiling Point Chart

FREEZING POINT: ~ (-34°F) Freezing Point Chart

SOLUBILITY IN WATER: Completely Miscible

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

DENSITY (lbs/gal): ~ 8.95 lbs/gal (60°F)

SPECIFIC GRAVITY: ~ 1.074 (water=1) at 20°C Calculated

VISCOSITY #1: ~ 1 Centipoise at (68°F)

(VOC): ~ 50.000 % by volume Calculated

Notes: Ethylene Glycol

COMMENTS: The information in this section is calculated from specific known information about this product. This information should not be used as exact test results or specifications. The information is provided as typical properties for this product.

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under ordinary conditions of use and storage.

POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID: Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide and Water Vapor

INCOMPATIBLE MATERIALS: Strong Oxidizers

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Ethylene Glycol	4700 mg/kg	9530 mg/kg	

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.

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: Environmentally Hazardous Substances, Liquids, N.O.S.

TECHNICAL NAME: Contains: Ethylene Glycol

PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: UN-3082

PACKING GROUP: III

NAERG: 171

PLACARDS: Class 9

OTHER SHIPPING INFORMATION: REGULATED IN BULK ONLY

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Environmentally Hazardous Substance

DOT Class 9

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**311/312 HAZARD CATEGORIES:** Immediate (Acute) Health Hazard**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No**313 REPORTABLE INGREDIENTS:** Ethylene Glycol (107-21-1), 50% max.**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

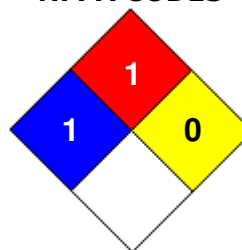
Chemical Name	Wt.%	CAS
Ethylene Glycol	~ 50	000107-21-1

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**CERCLA REGULATORY:** Ethylene Glycol**CERCLA RQ:** 5,000 lbs**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS	TSCA SECTION
Ethylene Glycol	000107-21-1	

TSCA REGULATORY: This material is listed on the EPA TSCA Inventory of Chemical Substances**TSCA STATUS:** All ingredients in this mixture are in compliance with TSCA.**16. OTHER INFORMATION****REASON FOR ISSUE:** Revised MSDS**APPROVED BY:** Evonne Masello **TITLE:** Environmental Analyst**PREPARED BY:** F. James Corbett**INFORMATION CONTACT:** 800-422-2436 x 1163**REVISION SUMMARY:** New MSDS**HMIS RATING**

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

NFPA CODES

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