

Safety Data Sheet

Issue Date:	16-Feb-2016	Re	evision Date:		Version
		1. IC	DENTIFICATION		
Product Iden Product Nam		ASHBURN HFT 400	0 - HEAT TRANSFER FLUID		
Other means SDS # Item# L-357	s of identification 70-05				
<u>Recommend</u> Recommend	led use of the chemic led Use	cal and restrictions of Heat transfer fluid	<u>on use</u>		
Details of the Supplier Add	e supplier of the safe dress	Ashburn Chemical 7403 Wright Rd	-		
Company Ph	<u>Telephone Number</u> none Number Telephone (24 hr)	Houston, TX 77041 832-399-1000 INFOTRAC 1-352-3 1-800-535-5053 (No	23-3500 (International)		
		2. HAZAR	RDS IDENTIFICATION		
Appearance	Clear Fluorescent Orange	Physical State	Liquid	Odor	very mild
<u>Classificatio</u>	<u>n</u>				
Acute Toxicity Specific Targ	y (Oral) et Organ Toxicity (Rej	peat Exposure-Oral)		Category 2 Category 2	
Signal Word	_	WARNING			
Hazard State Harmful if swa May cause da	allowed.	ey) through prolonged	d or repeated exposure if swall	owed.	

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product.

<u>Precautionary Statements – Response</u> IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Ethylene Glycol	107-21-1	80-90
Dipotassium Hydrogen Phosphate	7758-11-4	1-5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES			
First Aid Measures			
General Advice	Provide this SDS to medical personnel for treatment.		
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin Contact	Wash contact areas with soap and water. Remove contaminated clothing and lauder before reuse. If skin irritation occurs: Get medical advice/attention.		
Inhalation	Remove from further exposure and keep person at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.		
Ingestion	Do not induce vomiting without medical advice. Seek immediate medical attention/advice.		
Most important symptoms and effects			
Symptoms	See SECTION 11 for delayed and chronic effects.		
Indication of any immediate medical attention and special treatment needed			
Notes to Physician	Treat symptomatically.		
	5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. DO NOT use stream of water (could cause fire to spread).		
Combustion Products/Specific I	Hazards Containers may rupture from gas generation in a fire situation. Liquid mist of this product can burn.		
Protective equipment and preca	utions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.		
	6. ACCIDENTAL RELEASE MEASURES		
Personal Precautions	Avoid contact with skin or eyes. Avoid breathing dust/fume/gas/mist/vapors/spray See SECTION 8 for Personal Protective Equipment		

Environmental Precautions	Prevent entry into waterways, rivers, lakes, drains, surface water, or ground water. Prevent further leakage or spillage if safe to do so. See SECTION 12 for Ecological Information
Methods for Clean-Up	Absorb or cover with dry earth, sand or other non-combustible material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. See SECTION 13 for Waste Disposal
	7. HANDLING AND STORAGE
Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing fumes, vapors, mists, spray. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. See SECTION 8 for Personal Protection. See SECTION 2 for Precaution Statements.
Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store in open or unlabeled containers. Store in the flowing containers: Carbon steel, stainless steel Store away from heat and open flame. Storage temperature > 40 °F.
Incompatible Materials	Oxidizing agents. Strong alkalis. Strong acids.
8. EX	(POSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH	OSHA	NIOSH STEL
Ethylene Glycol CAS#107-21-1	C 100 mg/ ³ (aerosol)	Final PELs: None listed.	no established RELs - see Appendix D.

Legend: ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration NIOSH: National Institute for Occupational Safety and Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit

Appropriate engineering controls

Engineering Controls Provide exhaust ventilation or adequate ventilation is required to keep airborne concentrations of vapors below their respective threshold limit value (TLV). Maintain eye wash fountain and quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses with side shields.	
Skin and Body Protection	Chemical or oil resistant clothing is recommended.	
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection	
General Hygiene Considerations Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. Remove contaminated clothing and lauder before reuse		

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Transparent	Odor	Characteristic
Color	Fluorescent Orange	Odor Threshold	Not determined
Property	Values	Remarks • Method	
pH	Not determined		
Melting Point/Freezing Point	-25 °C / 113 °F (literature)		
Boiling Point/Boiling Range	148 °C / 435 °F		
Flash Point	126.7 °C / 260 °F	Closed Cup	
Evaporation Rate	<0.5	·	
Flammability	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	2.0 mmHg	@ 20°C	
Vapor Density	> 1.0	(Air=1)	
Specific Gravity	1.10-1.15		
Water Solubility	Soluble		
Solubility in other solvents	Not determined		
Dynamic Viscosity	Not determined	@ 38°C (100°F)	
Partition Coefficient	Not determined		
Auto-ignition Temperature	427 °C / 801 °F		

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.	
Chemical Stability	Stable under recommended storage conditions.	
Possibility of Hazardous Reactions Stable under recommended storage conditions.		
Conditions to Avoid	Incompatible Materials.	
Incompatible Materials	Oxidizing agents. Strong alkalis. Strong acids.	

Hazardous Decomposition ProductsCarbon oxides. Irritating aldehydes and ketones when heated to combustion.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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Eye Contact	May cause slight eye irritation
Skin Contact	Prolonged contact may cause slight skin irritation with local redness.
Inhalation	May cause respiratory irritation.
Ingestion	Harmful if swallowed

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol	8,200 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	2.5mg/L (Rat) 6 h, aerosol

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute Effects	Excessive exposure may cause central nervous system effects,
Chronic Effects	Prolonged skin exposure to large qualities may results absorption of harmful amount

Not determined
No data available.
NO Uala available.

Reproductive Toxicity No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity /
Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	
Ethylene Glycol 1107-21-1		18,500 - 96 h Oncorhynchus mykiss mg/L LC50	•	41,000 : 48 h Daphnia magna mg/L EC50	
Persistence/Degradability	Not inherently biodegradable				
Bioaccumulation	This product is not bioaccumulate				
Mobility	No data available.				
Other Adverse Effects	No data available				
	13. DISPOS	AL CONSIDERATI	ONS		
Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.				
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.				
	14. TRANS	PORT INFORMATI	ON		
<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.				
DOT	Proper shipping name: OTHER REGULATED SUBSTANCES, LIQUID N.O.S (Ethylene Glycol) UN # 3082; Class 9, Packing Group III Reportablr Quality (RQ) 5,000lbs				
ΑΤΑ	Not regulated				
IMDG	Not regulated				
	15. REGUL	ATORY INFORMAT	ION		
International Inventories					
TSCA:	All component(s) are compliance with the inventory listing requirements of the US Toxic Substances Control Act				

US Federal Regulations

SARA 311/312 Hazard Categories Acute Health Hazard, Chronic Health Hazard

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313 ETHYLENE GLYCOL CA# 107-21-1

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol 107-21-1	Х	X	Х

16. OTHER INFORMATION Health Hazards Flammability Instability **Special Hazards** NFPA Not determined 0 1 1 Flammability **Physical Hazards Personal Protection** HMIS **Health Hazards** 0 Not determined 1 1 **Issue Date:** 16-Feb-2016 **Revision Date: Revision Note:** New Format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet