

M A T E R I A L   S A F E T Y   D A T A   S H E E T

HA55360 - ISO-HEET  
Part #HA55360

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\*\*\*\*\* HMIS RATINGS \*\*\*\*\*  
Health: 2   Flammability: 3   Reactivity: 0   Pers. Prot. Index: B

\*\*\*\*\* NFPA RATINGS \*\*\*\*\*  
Health: 2   Fire: 3   Reactivity: 0   Specific Hazard: None

**SECTION I   PRODUCT IDENTITY**

Product/Trade Name(s): HA55360 - ISO-HEET  
Part Number: HA55360  
MSDS Date: 07/17/03  
CAS #: N/A  
Category: N/A  
Distributor: N/A  
Chemical Name: Isopropanol  
Formula: N/A  
Brief Description: Gas line antifreeze for automobiles.

**SECTION II   HAZARDOUS INGREDIENTS & EXPOSURE LIMITS**

CHEMICAL NAME	CAS #	%	LIMIT VALUES	
ISOPROPANOL	67-63-0	99.00	PEL	400 ppm
			PEL	990 mg/m3
PROPRIETARY ADDITIVE (CAS# MIXTURE		1.00		N/A

**SECTION III   PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point: 180 F. (82.2 C.)  
Vapor Pressure (mm Hg.): 97.0  
Vapor Density (AIR = 1): >1.0  
Solubility in Water: Soluble  
% Volatile / Volume: 100.0  
Appearance and Odor: Water white liquid, solvent odor  
pH: N/A  
Specific Gravity (H2O = 1): 0.787

**Miscellaneous Information**

Product is flammable, keep away from sources of ignition, combustibles, oxidizing materials and acid. Store in an area equipped with automatic sprinklers or fire extinguishing system. Empty containers contain product residues, assume emptied containers to have same hazards as full containers.

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**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

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**Flash Point:** 54 F. (12.2 C.) TOC

**Flammable Limits:** 2.0 to 12.0

**Lower Explosive Limit (LEL):** 2.0

**Upper Explosive Limit (UEL):** 12.0

**Extinguishing Media**

Use halon replacement or carbon dioxide extinguishers or alcohol foam for small fires. Water spray or fog can cool fire but may not be effective in extinguishing fire. Large fires should be extinguished with alcohol foam. Use water spray to cool containers exposed to fire. Containers may explode in heat or fire.

**Special Fire Fighting Procedures**

Wear NIOSH approved SCBA respirator in the positive pressure mode and chemical protective clothing.

**Unusual Fire and Explosion Hazards**

Dangerous fire and explosion hazard when exposed to heat or flame. Isopropanol is extremely flammable and forms explosive mixtures with air. Isopropanol vapors may travel considerable distance to a source of ignition and flash back.

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**SECTION V REACTIVITY DATA**

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**Stable:** Yes

**Hazardous Polymerization May Occur:** No

**Conditions to Avoid**

Store in a well ventilated place away from sources of ignition, combustibles, oxidizing materials and acid.

**Incompatibility (Material to Avoid)**

Strong oxidizing agents, amines, chlorinated compounds and caustic materials.

**Hazardous Decomposition or Byproducts**

Excessive heating and/or incomplete combustion will produce carbon monoxide.

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**SECTION VI HEALTH HAZARD DATA**

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**Effects on Eyes**

Irritant.

**Effects on Skin**

Prolonged or repeated skin contact may cause dermatitis, scaling and possible systemic effects.

**Effects Due to Ingestion**

Low level of toxicity, small amounts of liquid aspirated into the respiratory system during ingestion may cause pulmonary edema.

**Effects Due to Inhalation**

Narcotic chemical affecting central nervous system resulting in: dizziness, nausea, visual impairment, narcosis and muscular impairment.

**First Aid Procedures for Eyes**

If the product contacts the eyes, immediately wash the eyes with large quantities of room temperature water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately. A follow up visit to an ophthalmologist should be made. Contact lenses should not be worn when working with this chemical.

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**SECTION VI HEALTH HAZARD DATA (cont.)**

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**First Aid Procedures for Skin**

If the product contacts the skin, promptly wash the contaminated skin with soap and water for at least 15 minutes. If this product penetrates the clothing, promptly remove the clothing and wash the skin with soap and water. Systemic effects may be delayed 18 to 72 hours, therefore keep individual under observation.

**First Aid Procedures for Ingestion**

If this product is ingested, DO NOT INDUCE AN PERSON TO VOMIT. Get medical attention immediately.

**First Aid Procedures for Inhalation**

Move the exposed person to fresh air at once and call emergency medical care. If breathing has stopped, give artificial respiration. If breathing is difficult, give humidified oxygen.

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**SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE**

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**Steps to Be Taken in Case Material is Released or Spilled**

SMALL SPILL: Remove sources of heat or ignition, provide adequate ventilation, contain leak using absorbent, inert, non-combustible material.  
LARGE SPILL: Contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.

**Waste Disposal Method**

Dispose of product in accordance with local, state, and federal regulations. Before attempting clean up, refer to other sections of MSDS for hazard warning information.

**Precautions to Be Taken in Handling and Storing**

See other sections of MSDS

**Other Precautions**

Product is flammable, handle accordingly.

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**SECTION VIII CONTROL MEASURES**

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**Local Exhaust:** Provide local ventilation to maintain exposure levels below recommended exposure limits.

**Mechanical (General):** In confined spaces, mechanical ventilation may be required.

**Special Ventilation:** Review Permissible Exposure Level (PEL's).

**Other Ventilation:** N/A

**Protective Gloves:** Use natural rubber or neoprene gloves as required.

**Eye Protection:** Use splash proof chemical, safety goggles or appropriate full-face respirator. Contact lenses should not be worn when working with this chemical.

**Other Protective Clothing or Equipment**

If there is a possibility of exposure of an individual's body to the product, wear body-covering work clothes to avoid prolonged or repeated exposure.

**Work/Hygienic Practices**

Use normal hygiene practices.

**Respiratory Protection (Specify Type)**

Do not use air purifying respirator. Use appropriate NIOSH approved supplied or self contained respirator. Respirators must be selected based

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SECTION VIII CONTROL MEASURES (cont.)

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Respiratory Protection (Specify Type) (cont.)

on the airborne levels found in the workplace and must not exceed the working limits of the respirator.

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SECTION IX ADDITIONAL INFORMATION

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Additional Information

SHIPPING INFORMATION (CFR 49 AND IMDG):

PROPER SHIPPING NAME: Alcohol, antifreeze

DOT

HAZARD CLASS : Consumer commodity, ORM-D

DOT UN NUMBER : None required.

IMDG SHIPPING NAME : Dangerous Goods in Limited Quantities  
of Class 3.2 (Isopropanol), PGII.

SARA TITLE III:

Section 302: None

Section 304: None

Section 311: Hazard categories-Fire Hazard=Yes; Acute=Yes and  
Chronic=Yes.

Section 313: None.

CERCLA:

Section 311(b)(4): Requires discharges of crude oil and petroleum products  
in any kind or form to waters must immediately be reported to the National  
Response Center at (800) 424-8802.

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specific context of the intended use to determine whether they are  
appropriate.

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