



Initial Preparation Date: 8/6/01
Effective Date: 3/27/02

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY: PEAK GAS LINE ANTIFREEZE ISO

1. CHEMICAL PRODUCT & COMPANY INFORMATION

ISOPROPANOL GAS LINE ANTIFREEZE

OLD WORLD INDUSTRIES, INC.
4065 COMMERCIAL AVENUE
NORTHBROOK, ILLINOIS 60062
PHONE: 847-559-2000
EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>MATERIAL</u>	<u>CAS#</u>	<u>% BY WT</u>	<u>TLV</u>
Isopropanol	67-63-0	100.0	400 ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Slight odor.

May be fatal if swallowed.

Vapors can cause eye irritation.

Lowest Known LD50 (Oral):	(RAT) 5840 mg / kg
Lowest Known LD50 (Skin):	(RABBIT) 12.8 gm / kg
Carcinogeny:	No
National Toxicology Program:	No
International Agency for Research on Cancer:	No
OSHA Regulated:	No

POTENTIAL HEALTH EFFECTS

Inhalation: Exposure to high vapor concentration may produce nausea, vomiting, headache, dizziness and central nervous depression. Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death. Vapor is heavier than air and can cause suffocation by reducing the available oxygen for breathing.

Ingestion: Swallowing causes abdominal discomfort and vomiting. May also cause central nervous system depression as well as low blood pressure, rapid heart beat and liver damage. Can cause drowsiness, unconsciousness and death. Gastrointestinal pain, cramps, nausea, vomiting and diarrhea may also result. The single lethal dose for a human adult is equivalent to about 250 mls. (8 ounces).

Eye Contact: Irritation. Will injure eye tissue if not removed promptly. Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

Skin: May be mildly irritating to skin. May be absorbed by skin.

Effects of Overexposure: Irritating to eyes and skin. Inhalation irritates nose and throat. High vapor concentration causes nausea, vomiting and central nervous system depression.

Medical Conditions Aggravated by Exposure: Persons with skin, heart, respiratory or any other medical condition should use caution when handling or using this product.

Chronic Exposure: Chronic exposure may cause skin effects.

4. FIRST AID MEASURES **Ensure physician has access to this MSDS.**

Routes of Entry: Inhalation, Skin, Ingestion (unusual)

Signs and Symptoms of Exposure: Headache, dizziness, nausea and loss of consciousness

TREATMENT

Eyes: Flush with water for 15 minutes. If irritation persists, call physician.

Skin: Flush with plenty of water. Wash with mild soap if available. If irritation persists, obtain medical assistance. Then obtain medical assistance.

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Then obtain medical assistance.

Ingestion: Drink one to two glasses of water if conscious; then induce vomiting and call physician immediately.

Notes to Physician:

5. FIRE FIGHTING MEASURES

NFPA Ratings: **HEALTH: 1** **FLAMMABILITY: 3** **REACTIVITY: 0**

KEY: 0 - Minimal, 1 - Slight, 2 - Moderate, 3 - Serious, 4 - Severe

FIRE & EXPLOSION HAZARD DATA

Flammable Properties

Flash Point: 53°F

Method Used: TCC

Flammability Limits - % of vapor concentration at which product can ignite in presence of spark.

LEL: 2.0

UEL: 12.7

Auto Ignition Temperature: 750° F

Hazardous Combustion Products: Isopropanol

Extinguishing Media: Water, fog alcohol foam, dry chemical or CO₂ for small fires.

Fire Fighting Instructions: Handle as extremely flammable liquid; cool containers exposed to heat with water to prevent vapor pressure buildup, which could result in the container rupturing.

Protective Equipment For Fire Fighters: Use air-supplied breathing equipment for enclosed areas.

Unusual Fire and Explosion Hazards: Vapors may travel and be ignited by pilot lights, flames, sparks, heaters, etc. at distances from the handling point.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken in Case the Material Is Spilled or Released: Wear suitable protective equipment. Large spills should be contained and collected. Small spills can be collected or may be absorbed with appropriate liquid absorbing materials. All spill response and disposal should be carried out in accordance with federal, state and local requirements.

Waste Disposal Method: Consult with local sewer, municipal, state and/or federal agencies to determine appropriate current disposal options.

7. HANDLING AND STORAGE

Do not breathe mist or spray. Follow good work hygiene practices. Provide safety shower and wash with soap and water before eating, smoking or using toilet facilities. Launder contaminated clothing before reusing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Provide adequate ventilation with local exhaust system.

Ventilation: Mechanical or other.

Skin Protection: Chemical resistant gloves, pants and jacket recommended.

Eye Protection: Wear chemical goggles or safety glasses

Engineering Controls:

Ventilation Local Exhaust: Yes

Mechanical (General) if required. Avoid breathing vapor. Avoid eye and skin exposure. Keep out of reach of children.

EXPOSURE LIMITS

Component	Exposure Limits
Isopropanol	400 ppm TLV

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (760 mm Hg):	180° F
Specific Gravity (Water =1):	0.789 at 60° F
Vapor Pressure (mm of Hg):	32 at 20°C
Vapor Density (Air=1):	2.1
Water Solubility:	Complete
Appearance:	Colorless
Odor:	Mild Odor
Melting Point:	-144°F
% Volatility by Volume:	100%
Evaporation Rate (BuAc = 1):	2.88

10. STABILITY AND REACTIVITY**Stability:** Stable**Conditions to Avoid:** Keep away from flame, heat and sparks; do not store above 120°F**Incompatibility (Materials to Avoid):** Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, hydrogenpalladium combination, hydrogen peroxide-sulfuric acid combination, potassium tertbutoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum and perchloric acid. Keep away from concentrated nitric and sulfuric acids, strong oxidizers, aldehydes, halogens and halogen compounds.**Hazardous Decomposition Products:** May produce CO or CO₂.**Hazardous Polymerization:** Will not occur**11. TOXICOLOGICAL INFORMATION****Oral Rat LD50:** 5045 mg/kg**Skin Rabbit LD50:** 12.8 gm/kg**Inhalation Rat LC50:** 16,000 ppm/8-hour; investigated as a tumorigen, mutagen, reproductive effector**Skin:** N/A**Ingestion:** N/A**Mutagenicity (The Effects On Genetic Material):** Unknown**Significant Data With Possible Relevance To Humans:** N/A

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between one and ten days. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between one and ten days. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

ENVIRONMENTAL TOXICITY

The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

U.S. Department of Transportation (Domestic Ground)

Proper Shipping Name: Consumer Commodity ORM-D
Hazard Class: N/A
I.D. #: N/A
ORM-D List Exemption: 173.150
Outer Packaging: Consumer Commodity ORM-D and Orientation Arrows
Inner Packaging: Flammable

IATA (Air)

Proper Shipping Name: Isopropanol
Limited Quantity List Exemption: Part 2.8
Hazard Class: 3
I.D. #: 1219
PG: II
Packing Instructions: Y305
Outer Packaging: Flammable Liquid, Orientation Arrows, Isopropanol ID # and LTD. QTY.
Inner Packaging: Flammable

IMDG (Ocean)

Proper Shipping Name: Isopropanol
Limited Quantity List Exemption: Vol II, 18.3-18.9.1
Hazard Class: 3
I.D. #: 1219
Outer Packaging: Dangerous Goods in Limited Quantities of Class 3
Inner Packaging: Flammable

15. REGULATORY INFORMATION

Chemical Inventory Status Part 1:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TSCA</u>	<u>EC</u>	<u>Japan</u>	<u>Australia</u>
Isopropanol Alcohol	67-63-0	Yes	Yes	Yes	Yes

Chemical Inventory Status Part 2:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>Korea</u>	<u>DSL</u>	<u>NDSL</u>	<u>Phil.</u>
Isopropanol Alcohol	67-63-0	Yes	Yes	No	Yes

CANADA

Federal, State & International Regulations Part 1:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>RQ</u>	<u>TPW</u>	<u>List</u>	<u>Chem. Catg.</u>
Isopropanol Alcohol	67-63-0	No	No	Yes	No

-----SARA 302-----

-----SARA 313-----

Federal, State & International Regulations Part 2:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>CERCLA</u>	<u>-RCRA- 261.33</u>	<u>-TSCA- 8 (d)</u>
Isopropanol Alcohol	67-63-0	No	No	No

Chemical Weapons Convention: No

TSCA 12 (b): Yes

CDTA: Yes

SARA: 311/312

Acute: Yes

Chronic: Yes

Fire: Yes

Pressure: No

Reactivity: No (Mixture / Liquid)

Canadian Regulations:

WHMIS Information: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Australian Hazchem Code: 2[S]2

Poison Schedule: No information found

16. OTHER INFORMATION

Contact: Thomas Cholke

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