Ashland

Page 001 Date Prepared: 02/10/95 Date Printed: 01/08/01 MSDS No: 503.0199342-002.008

#### ISOPROPYL GAS DRYER

# CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: ISOPROPYL GAS DRYER General or Generic ID: FUEL TREATMENT

Company

Ashland Distribution Co. & 24 hours everyday Ashland Specialty Chemical Co. P. O. Box 2219 Columbus, OH 43216 614-790-3333

Emergency Telephone Number: 1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number: 1-800-325-3751

COMPOSITION/INFORMATION ON INGREDIENTS 2.

CAS Number % (by weight) Ingredient(s) 67-63-0 90.0-100.0 ISOPROPANOL

#### HAZARDS IDENTIFICATION 3.

## Potential Health Effects

Can cause eye irritation

Skin

May cause mild skin irritation. Prolonged or repeated contact may dry and crack the skin. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), low blood pressure, mild, temporary changes in the liver, effects on heart rate, respiratory depression (slowing of the breathing rate), loss of coordination, confusion, lung edema (fluid buildup in the lung tissue), kidney damage, coma.

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Target Organ Effects

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate preexisting disorders of these organs in humans: mild, reversible liver effects.

Developmental Information

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Cancer Information

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin absorption, Skin contact, Eye contact, Ingestion.

#### FIRST AID MEASURES 4.

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding evelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), kidneys.

#### FIRE FIGHTING MEASURES

Flash Point

- 55.0 - 12.7 C) TCC 50.0 F (10.0

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Explosive Limit

(for product) Lower 2.0 Upper 12.0% gagget

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 1, Flammability - 3, Reactivity - 0

### ACCIDENTAL RELEASE MEASURES

Small Spill

Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occured. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks).

### 7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred. Avoid prolonged or repeated contact.

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Storage

Do not store near extreme heat, open flame, or sources of ignition.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

#### Skin Protection

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

#### Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

#### Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

### Exposure Guidelines

Component

ISOPROPANOL (67-63-0)

OSHA VPEL 400.000 ppm - TWA

OSHA VPEL 500.000 ppm - STEL ACGIH TLV 400.000 ppm - TWA ACGIH TLV 500.000 ppm - STEL

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Boiling Point**

(for product) 180.0 F (82.2 C) @ 760.00 mmHg

### Vapor Pressure

(for product) 33.000 mmHg @ 68.00 F

# Specific Vapor Density

@ AIR=1 2.070

#### Specific Gravity .791 @ 77.00 F

## Liquid Density

6.580 lbs/gal @ 77.00 F .791 kg/l @ 25.00 C

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Percent Volatiles (Including Water) 100.0

**Evaporation Rate** 

7.70 (ETHYL ETHER

Appearance

No data

State

LIQUID

Physical Form

HOMOGENEOUS SOLUTION

Color

CLEAR

Odor

No data

pΗ

Not applicable

### STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability

Stable.

Incompatibility
Avoid contact with: acetaldehyde, acids, chlorine, ethylene oxide, isocyanates strong oxidizing agents, Do not use with aluminum equipment at temperatures

#### 11. TOXICOLOGICAL INFORMATION

No data

### **ECOLOGICAL INFORMATION**

No data

#### 13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations.

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#### TRANSPORT INFORMATION 14.

DOT Information - 49 CFR 172.101 DOT Description:

Not Regulated

Container/Mode:

CASES/SURFACE - ORM-D EXCEPTION

NOS Component: ISOPROPANOL

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

#### REGULATORY INFORMATION 15.

US Federal Regulations
TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed

CERCLA RO - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

Section 311/312 Hazard Class - 40 CFR 370.2

Delayed(X) Fire(X) Reactive() Sudden Release of Immediate(X)

Pressure()

SARA 313 Components - 40 CFR 372.65

International Regulations
Inventory Status
Not determined

State and Local Regulations California Proposition 65

None

New Jersey RTK Label Information ISOPROPYL ALCOHOL

THE MERCHANISM TO THE 67-63-0

Pennsylvania RTK Label Information

2-PROPANOL

67-63-0

#### 16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.