

SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION & COMPANY INFORMATION

PRODUCT: Isopropyl Alcohol 70%

ITEM: 110160

DATE ISSUED : 5/15/2015

SDS REF. No : 110160

SUPPLIER:

SupplyWorks/CleanSource
650 Brennan Street
San Jose, CA 95131

24 HR. EMERGENCY TELEPHONE NUMBER:

INFOTRAC (US Transportation): (800) 535-5053

NON-EMERGENCY TELEPHONE NUMBER:

(408) 324-3216

2. HAZARDS INGREDIENTS & IDENTIFICATION

GHS CLASSIFICATION:

Flammable

Category 2

Eye irritation

Category 2B

GHS LABEL ELEMENT

Hazard Pictograms



SIGNAL WORD: DANGER

HAZARD STATEMENTS: Highly flammable liquid and vapor. Harmful if swallowed. Causes serious eye irritation.

PREVENTION:

Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE:

IF SWALLOWED: Do Not induce vomiting. Rinse mouth. Immediately drink 1 to 2 glasses of water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

If in EYES: In case of contact, immediately flush thoroughly with plenty of cool running water. Remove contact lenses if worn. Continue flushing for at least 15 minutes holding eyelids apart. If irritation persists, get medical attention promptly.

IF on SKIN (or HAIR): In case of contact, immediately flush thoroughly with plenty of cool running water for at least 15 minutes. Immediately remove contaminated clothing and shoes. Wash prior to reuse.

IF INHALED: If discomfort is experienced from exposure to spray mist, the person should employ respiratory protection or leave the contaminated area until proper ventilation is restored. Breathe fresh air. If irritation persists, get medical attention.

STORAGE: Store in a tightly closed container. Do not store near oxidizers, alkalies, acids and bleach. Do not mix with other chemicals. Store away from excessive heat.

DISPOSAL METHOD: Dispose of in accordance with all Local, State and Federal regulations.

EMPTY CONTAINER: Nonrefillable container. Do not reuse or refill container. Before discarding container, rinse thoroughly with water.

OTHER HAZARDS: None known.

3. PHYSICAL DATA/COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS Number	Wt%	OSHA PEL	ACGIH TLV
Isopropyl Alcohol	67-63-0	70	400ppm	400ppm

4. HEALTH HAZARD DATA & FIRST AID MEASURES

GENERAL: If a known exposure occurs or is suspected and is determined to be a health threat or if any symptoms persist, contact a physician, the nearest hospital, or the nearest Poison Control Center. Inform the person contacted of the type and extent of the exposure, describe the victim's symptoms and follow the advice given.

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 eyelids apart; seek immediate medical attention. Continue the flushing for an additional 15 minutes if the physician is not immediately available.

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

INGESTION: If swallowed, 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, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING & EXPLOSION DATA/MEASURES

SUITABLE EXTINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water, Carbon Dioxide, Dry Chemical, Foam.

UNSUITABLE EXTINGUISHING MEDIA: None Known

SPECIFIC HAZARDS DURING FIRE FIGHTING: 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.

HAZARDOUS COMBUSTION PRODUCTS: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

FIRE FIGHTING EQUIPMENT : Use Self Contained Breathing Apparatus (SCBA) or NIOSH approved respirator and protective clothing.

FIRE FIGHTING PROCEDURES : Water may be ineffective. Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

GENERAL HAZARD: Flammable

FLASH POINT: 70°F (Open Cup)

FLAMMABLE LIMITS: N/A

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE CLASS : Flammable 3 (DOT)

OTHER CONSIDERATIONS: Never use welding or cutting torch on or near drum (even empty) because product the product and product residue can ignite explosively.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCDURES: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid Inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If run off occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Per good environmental management practices, prevent run-off to sewers, streams and other bodies of water. Stop spill at the source. Cover sewer grates and dike the spill. Absorb spilled material on to absorbents. Shovel materials into container. Close container tightly and dispose of properly.

ENVIRONMENTAL PRECAUTIONS: Do not allow contact with soil, surface or ground water.

7. PRECAUTIONS FOR SAFE HANDLING/STORAGE/USE

SAFE HANDLING: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

GENERAL PROCEDURES : 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. Warning . Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "auto-ignition "or "ignition "temperature values cannot be of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

STORAGE TEMPERATURE: 0 °C to 50 °C

8. EXPOSURE CONTROLS\PERSONAL PROTECTION (PPE)

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS

Hazardous Components	CAS Number	Form of Exposure	Permissible Concentration
Isopropyl Alcohol	67-63-0	Celling	400ppm

OSHA TABLE COMMENTS: NL = Not Listed

ENGINEERING CONTROLS: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

PERSONAL PROTECTIVE EQUIPMENT:

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

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

RESPIRATORY: If workplace exposure limit(s) of product or any component is exceeded , 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 (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

WORK HYGIENIC PRACTICES: Avoid accidental spills on skin, wash after use. Wash contaminated clothing prior to reuse.

OTHER USE PRECAUTIONS: Have clean water available for washing. Provide adequate ventilation or use mechanical devices.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE:	Liquid
COLOR:	Clear
ODOR:	Slight Ethanol
pH:	No Data Available
FLASH POINT:	70°F (Open Cup)
ODOR THRESHOLD:	No Data Available
MELTING POINT/FREEZING POINT:	No Data Available
BOILING POINT:	<212°F
EVAPORATION RATE:	(Water=1): >1 (faster than water)
FLAMMABILITY (SOLID, GAS):	No Data Available
UPPER EXPLOSION LIMIT:	No Data Available
SPECIFIC GRAVITY:	(H ₂ O=1): 86 at 68°F
LOWER EXPLOSION LIMIT:	No Data Available
VAPOR PRESSURE:	(mm Hg): 33 at 68°F
RELATIVE VAPOR DENSITY:	(Air=1): >1 (heavier than air)
RELATIVE DENSITY:	No Data Available
WATER SOLUBILITY:	100%
SOLUBILITY IN OTHER SOLVENTS:	No Data Available
PARTITION COEFFICIENT: N-OCTANOL/WATER:	No Data Available
AUTOIGNITION TEMPERATURE:	No Data Available
THERMAL DECOMPOSITION:	No Data Available
VISCOSITY, KINEMATIC:	No Data Available
EXPLOSIVE PROPERTIES:	No Data Available
OXIDIZING PROPERTIES:	No Data Available
MOLECULAR WEIGHT:	No Data Available
VOC:	No Data Available

10. STABILITY AND REACTIVITY

STABILITY :	Stable
HAZARDOUS POLYMERIZATION :	Will NOT Occur
CONDITIONS TO AVOID :	Avoid contact with open flame, ignition sources, and poor ventilation.
POLYMERIZATION :	Will NOT Occur
HAZARDOUS DECOMPOSITION PRODUCTS:	CO, CO ₂
INCOMPATIBLE MATERIALS:	Avoid contact with: acetaldehyde, acids, chlorine, ethylene oxide, Isocyanides, strong oxidizing agents. Do not use with aluminum equipment at temperatures above 120 degrees Fahrenheit.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Inhalation, Ingestion, Eye contact, Skin contact.

POTENTIAL HEALTH EFFECTS:

EYES:	Causes serious eye irritation.
SKIN:	May cause mild skin irritation.
INGESTION:	Irritation of the gastrointestinal and digestive tract.
INHALATION:	May cause nose, throat, and lung irritation.
CHRONIC EXPOSURE:	Health injuries are not known or expected under normal use.

EXPERIENCE WITH HUMAN EXPOSURE:

EYE CONTACT:	Redness, Pain, Irritation
SKIN CONTACT:	Redness, Pain, Irritation
INGESTION:	Irritation, Abdominal pain
INHALATION:	Respiratory Irritation, Cough

TOXICITY

ACUTE ORAL TOXICITY:	Acute toxicity estimate: > 5,000 mg/kg
ACUTE INHALATION TOXICITY:	No Data Available
ACUTE DERMAL TOXICITY:	No Data Available
SKIN CORROSION/IRRITATION:	No Data Available
SERIOUS EYE DAMAGE/EYE IRRITATION:	No Data Available
RESPIRATORY OR SKIN SENSITIZATION:	No Data Available
CARCINOGENICITY:	No Data Available
REPRODUCTIVE EFFECTS:	No Data Available
GERM CELL MUTAGENICITY:	No Data Available
TERATOGENICITY:	No Data Available
STOT-SINGLE EXPOSURE:	No Data Available
STOT-REPEATED EXPOSURE:	No Data Available
ASPIRATION TOXICITY:	No Data Available
GENERAL COMMENTS:	No Data Available

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product has no known ecotoxicological effects. Non Identified

PRODUCT

TOXICITY TO FISH:

No Data Available

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:

No Data Available

TOXICITY TO ALGAE:

No Data Available

INGREDIENTS

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:

Isopropyl alcohol

PERSISTENCE AND DEGRADABILITY:

No Data Available

BIOACCUMULATIVE POTENTIAL:

No Data Available

MOBILITY IN SOIL:

No Data Available

OTHER ADVERSE EFFECTS:

No Data Available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all Local, State and Federal regulations.

EMPTY CONTAINER: Nonrefillable container. Do not reuse or refill container. Before discarding container, rinse thoroughly with water.

RCRA/EPA WASTE INFORMATION: N/A

14. TRANSPORT INFORMATION

THE SHIPPER/CONSIGNOR/SENDER IS RESPONSIBLE TO ENSURE THAT THE PACKAGING, LABELING, AND MARKINGS ARE IN COMPLIANCE WITH THE SELECTED MODE OF TRANSPORT.

DOT (DEPARTMENT OF TRANSPORTATION)

LAND TRANSPORT:

PACKAGE SIZE: 1-Quart or Less

DOT DESCRIPTION: Compounds, Cleaning Liquid

DOT LABEL: None

DOT PLACARD: None

PACKAGE SIZE: 1-Gallon or Larger

UN NUMBER: UN 1993

UN PROPER SHIPPING NAME : Flammable liquids, n.o.s.
(contains Isopropyl alcohol).

TRANSPORT HAZARD CLASS: Flammable 3

TRANSPORT HAZARD SUBCLASS: N/A

PACKING GROUP: PG II

[ERG#128] (Contains Isopropanol)

DOT LABEL: Flammable 3

DOT PLACARD: Flammable 3 (1001 Lbs. or More)

MARINE POLLUTANT Y/N: No

SEA TRANSPORT (IMDG/IMO):

PACKAGE SIZE: 1-Quart or Less

DOT DESCRIPTION: Compounds, Cleaning Liquid

DOT LABEL: None

DOT PLACARD: None

PACKAGE SIZE: 1-Gallon or Larger

UN NUMBER: UN 1993

UN PROPER SHIPPING NAME : Flammable liquids, n.o.s.
(contains Isopropyl alcohol).

TRANSPORT HAZARD CLASS: Flammable 3

TRANSPORT HAZARD SUBCLASS: N/A

PACKING GROUP: PG II

[ERG#128] (Contains Isopropanol)

DOT LABEL: Flammable 3

DOT PLACARD: Flammable 3 (1001 Lbs. or More)

MARINE POLLUTANT Y/N: No

15. REGULATORY INFORMATION

EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW

CERCLA REPORTABLE QUANTITY

Hazardous Components	CAS Number	Component RQ (Lbs.)	Calculated Component RQ (lbs.)
Isopropyl Alcohol	67-63-0	1,000	22,222

UNITED STATES:

SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SARA 304 EXTREMELY HAZARDOUS SUBSTANCES REPORTABLE QUANTITY:

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards:

Acute Health Hazard

SARA 302:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

CALIFORNIA PROP 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

HMIS RATING		
Health :	1	HMISH
Flammability :	3	HMISF
Reactivity :	0	HMISR
Personal Protection :		HMISP

MANUFACTURER DISCLAIMER : We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

NFPA



