



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: Isopropyl Alcohol, 99.5%, Semi,

1.2 Details of the supplier of the safety data sheet

Shape Products
1127 57th Avenue
Oakland, CA 94621
USA

Telephone: +1 510-534-1186

Fax: +1 510-534-1862

1.3 Emergency telephone number

For domestic U.S.A. - Chemtec: +1 800-424-9300, contract # 23969

For international - Infotec: +1 352-323-3500, contract # 107082

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids Category 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 narcotic effects

2.2 GHS Label elements, including precautionary statements

Pictogram(s)



Signal word **Danger**

Hazard statement(s)

Causes serious eye irritation. May cause drowsiness or dizziness. Highly flammable liquid and vapor.

Precautionary statements(s)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapors. Wash thoroughly after handling. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction.

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1

Name	CAS number	%	GHS–US classification
Isopropyl Alcohol	67-63-0	99.8+	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336
Water	7732-18-5	< 0.5	N/A

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

If inhaled

Move into fresh air and keep at rest. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.

In case of skin contact

Wash skin with soap and water. Get medical attention if irritation develops and persists.

In case of eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists after washing.

If swallowed

Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause respiratory tract irritation. May cause drowsiness or dizziness. Defats the skin.

4.3 Indication of any immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm.

5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Hazards

The product is highly flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. During fire, gases hazardous to health may be formed. Solvent vapors may form explosive mixtures with air

5.3 Advice for firefighters

Advice

In case of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Equipment

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Local authorities should be advised if significant spillages cannot be contained. Stay upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water

6.3 Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Dike the spilled material, where this is possible. Following product recovery, flush area with water. Cover with plastic sheet to prevent spreading. Absorb spillage with non-combustible, absorbent material.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4 Reference to other sections

No additional information available

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

The product is highly flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Use only in well-ventilated areas. Avoid prolonged exposure. Wash thoroughly after handling. Handle and open container with care

7.2 Conditions for safe storage, including any incompatibilities

Follow rules for flammable liquids. Keep away from heat, sparks and open flame. Store in cool place. Keep in a well-ventilated place. Keep container tightly closed. Keep in an area equipped with sprinklers. Keep this material away from food, drink and animal feed. Use care in handling/storage. Keep away from sources of ignition - No smoking.

7.3 Specific end user(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameter

Components with workplace control parameters

Component	CAS-No.	Control parameters	Value
Isopropyl Alcohol	67-63-0	OSHA PEL	980 mg/m ³ / 400 ppm
		ACGIH STEL / TWA	400 ppm / 200 ppm
		NIOSH TWA	980 mg/m ³ / 400 ppm
		NIOSH STEL	1225 mg/m ³ / 500 ppm

8.2 Exposure controls

Appropriate Engineering controls

Explosion proof exhaust ventilation should be used. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment. Provide easy access to water supply or an emergency shower.

Personal protective equipment

Eye/face protection

Wear chemical goggles.

Skin and Hand protection

Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Body protection

Wear appropriate chemical resistant clothing. Anti-static boots.

Respiratory protection

Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Other information

Wear appropriate thermal protective clothing, when necessary. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Launder contaminated clothing before reuse. Remove and isolate contaminated clothing and shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Color	colorless
Upper/lower flammability or explosive limits	No data available
Odor	rubbing alcohol
Odor threshold	No data available
Vapor pressure	6.05 kPa at 25 °C
Vapor density	2.1
pH	No data available
Relative density	0.79
Melting point	-127.3 °F
Freezing point	-88.5 °C
Initial Boiling point and boiling range	180.5 °F (82.5 °C) 101.325 kPa
Flash point	
Evaporation rate	2.83
Flammability (solid, gas)	No data available
Water solubility	very soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	750.2 °F (399 °C)
Decomposition temperature	No data available
Viscosity	No data available

9.2 Other Information

Density 0.79 g/cm³

Dynamic viscosity 2.1 mPa.s

Dynamic viscosity temperature 77 °F (25 °C)

Explosive limit No data available

Explosive properties No data available.

Flash point class Flammable IB
Heat of combustion (NFPA 30B) 27.4 kJ/g
Molecular formula C3-H8-O
Molecular weight 60.1 g/mol
Oxidizing properties No data available.
Percent volatile 100 %

10. STABILITY AND REACTIVITY

10.1 Reactivity

May attack some plastics, rubber and coatings

10.2 Chemical stability

Stable under normal temperature conditions. Risk of explosion. Risk of ignition

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents. Strong acids. Alkali metals. Aluminum.

10.6 Hazardous decomposition products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Aldehydes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Vapors may cause drowsiness and dizziness. Causes eye irritation. May cause central nervous system effects.

Isopropyl Alcohol (CAS 67-63-0)

Acute Oral LD50 Rat 5045 mg/kg

Skin corrosion/irritation

May cause skin irritation. Causes mild skin irritation. Defats the skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

None known

Specific target organ toxicity – single exposure

May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

May be harmful if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Aquatic toxicity

Fish LC50 Bluegill (*Lepomis macrochirus*) > 1400 mg/l, 96 hours

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results in PBT and vPvB assessment

No data available

12.6 Other adverse effects

The product is a volatile organic compound which has a photochemical ozone creation potential.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations. Hazardous waste code D001: Waste Flammable material with a flash point <140 °F

Contaminated Container

Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

In accordance with DOT

DOT NA No.	UN1219
DOT Proper Shipping Name	Isopropanol
Hazardous Class	3
Packing group (DOT)	II
Hazard Labels:	3



15. REGULATORY INFORMATION

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)
2-Propanol (CAS 67-63-0) LISTED
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance
No
SARA 311/312 Hazardous chemical
Yes
SARA 313 (TRI reporting)
Chemical name CAS number % by wt.
2-Propanol 67-63-0 100
Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)
Not regulated.
Food and Drug Administration (FDA)
Not regulated.

International Inventories

Australia Australian Inventory of Chemical Substances (AICS) Yes
Canada Domestic Substances List (DSL) Yes
Canada Non-Domestic Substances List (NDSL) No
China Inventory of Existing Chemical Substances in China (IECSC) Yes
Europe, European Inventory of Existing Commercial Chemical Substances (EINECS) YES
Europe European List of Notified Chemical Substances (ELINCS) No
Japan Inventory of Existing and New Chemical Substances (ENCS) Yes
Korea Existing Chemicals List (ECL) Yes
New Zealand New Zealand Inventory Yes

Phillipines, Philippine Inventory of Chemicals and Chemical Substances (PICCS) Yes
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

US State regulations

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

US. Massachusetts RTK - Substance List

2-Propanol (CAS 67-63-0)

US. New Jersey Worker and Community Right-to-Know Act

2-Propanol (CAS 67-63-0) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

2-Propanol (CAS 67-63-0)

US. Rhode Island RTK

2-Propanol (CAS 67-63-0)

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

TSCA Inventory List:

All of the ingredients (or their hydrate forms) are listed.

CERCLA Reportable Quantity (RQ):

None of the ingredients have a RQ.

SARA Section 302 Threshold Planning Quality (TPQ):

None of the ingredients have a TPQ.

SARA Title Codes:

CAS # 67-63-0: acute, chronic, flammable.

OSHA:

This product is not considered to be highly hazardous by OSHA Hazard Communication Standard.

16. OTHER INFORMATION**HMIS Rating**

HEALTH: 2

FIRE: 3

REACTIVITY: 0

SPECIFIC HAZARD: N/A

EMERGENCY CONTACT: CHEMTREC (800) 424-9300

Further Information

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Preparation Information

Current Revision: 2

Revision Date: June 01 2015

Print Date: 21 May 2025