

Safety Data Sheet

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1. Identification of the substance/mixture and of the company/undertaking

Product name: Isopropanol Recovered

Product code: 1516871

Synonyms: None.

Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Solvent in chemical manufacturing.. For industrial use only.

Supplier: Everchem, LLC, 1400 N. Providence Road, Suite 302, Media, PA 19063

For Emergency Health, Safety & Environmental Information, call (585) 722-5151 (USA)

For further information about this product, call (484) 234-5030

2. Hazards identification

Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:

Hazard class	Hazard category	Route of exposure (Target organs)
Flammable liquids	Category 2	--
Serious eye damage/eye irritation	Category 2A	--
Target Organ Systemic Toxicant - Single exposure	Category 3	--

GHS-Labeling

Contains:
Isopropanol (67-63-0)

Symbol(s):



Signal word: Danger

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Hazard statements: Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. May cause respiratory irritation.

Precautionary statements:

Prevention: Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/ lighting/ equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash thoroughly after handling.

Response: In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. 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 ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other hazards which do not result in classification:

May form explosive peroxides.

HMIS III Hazard Ratings: Health - 2, Flammability - 3, Physical Hazard - 1

NFPA Hazard Ratings: Health - 2, Flammability - 3, Instability - 1

NOTE: HMIS III and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Weight percent	Components - (CAS-No.)
95 - 100	Isopropanol (67-63-0)
0.1 - < 1	Ethanol (64-17-5)

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4. First aid measures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

Eyes: 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.

Skin: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Ingestion: Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed: No information available.

Indication of immediate medical attention and special treatment needed:

Treatment: No information available.

5. Fire-fighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: Carbon oxides

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Water may be ineffective.

Unusual Fire and Explosion Hazards: Flammable Material contains a flammable solvent that may accumulate in the container headspace. Prevent buildup of vapours or gases to explosive concentrations. Forms explosive peroxides which may be shock sensitive.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up: Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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Environmental precautions: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams.

For Large Spills: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams.

7. Handling and storage

Precautions for safe handling

Personal precautions: Avoid breathing mist or vapor at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Prevention of Fire and Explosion: Keep away from heat, light, sparks, and flame. Use only with adequate ventilation. Keep from contact with oxidizing materials. If peroxide formation is suspected, do not open or move container. Minimize exposure to air. After opening, purge container with nitrogen before reclosing. Periodically test for peroxide formation on long-term storage. Do not distill or allow to evaporate to near dryness. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Conditions for safe storage, including any incompatibilities: Do not freeze. Protect against light. Protect from contamination. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Isopropanol	ACGIH	time weighted average	200 ppm
Isopropanol		Short term exposure limit	400 ppm
	OSHA	time weighted average	400 ppm 980 mg/m3
Ethanol	ACGIH	Short term exposure limit	1,000 ppm
	OSHA	time weighted average	1,000 ppm 1,900 mg/m3

Appropriate engineering controls: Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

Individual protection measures, such as personal protective equipment

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Eye protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Respiratory protection: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

9. Physical and chemical properties

Physical form: liquid

Color: clear colorless

Odor: characteristic

Specific gravity: 0.785 - 0.787

Vapor pressure: no data available

Vapor density: no data available

Boiling point/boiling range: > 37.8 °C (> 100.0 °F) (estimated)

Water solubility: soluble

pH: no data available

Flash point: < 22.8 °C (< 73.0 °F) (estimated)

Evaporation rate: no data available

Flammability (Solid; gas): no data available

Upper explosion limit: no data available

Lower explosion limit: no data available

Partition coefficient: n-octanol/water: no data available

Auto ignition temperature: no data available

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Decomposition temperature: no data available

Viscosity: no data available

Explosive properties: no data available

Oxidizing properties: no data available

10. Stability and reactivity

Reactivity: no data available

Chemical stability: Stable; however, forms peroxides that may explode on concentration.

Possibility of hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: no data available

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

11. Toxicological information

Effects of Exposure

General advice:

Contains: Isopropanol. Ingestion of large amounts of isopropyl alcohol may cause headache, dizziness, incoordination, vomiting, confusion, stupor, kidney injury coma and death. Prolonged exposure to high vapor concentrations of isopropyl alcohol may cause irritation of the eyes, nose, and throat and narcosis. Can cause CNS effects.

Contains: Ethanol. Prolonged exposure to high vapor concentrations or ingestion of ethanol may cause irritation, headache, drowsiness, fatigue, and narcosis. Can cause CNS effects.

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness.

Eyes: Causes serious eye irritation.

Skin: Expected to be a low hazard for recommended handling.

Ingestion: Expected to be a low ingestion hazard.

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Data for Isopropanol (CAS 67-63-0):

Acute Toxicity Data:

Oral LD50 (rat): 4,396 mg/kg

- Inhalation LC50 (rat): 51 mg/l / 8 hr
- Inhalation LC50 (female rat): 19000 ppm / 8 hr
- Inhalation LC50 (rat): 16000 ppm / 8 hr
- Dermal LD50 (rabbit): 12,800 mg/kg
- Skin irritation: No skin irritation
- Skin Sensitization (guinea pig): none
- Eye irritation: slight to moderate

Mutagenicity/Genotoxicity Data:

- Salmonella/Mammalian-Microsome Reverse Mutation Screening Assay (TA98, TA100, TA1535, TA1537, TA1538): negative (in presence and absence of activation)
- CHO/HGPRT assay: negative (in presence and absence of activation)
- Cell transformation assay: negative (in absence of activation)
- Mouse micronucleus assay: negative

Definitions for the following section(s): LOEL =lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL =no-observed-effect level.

Repeated dose toxicity:

- Inhalation (13 week, male and female rat): NOEL; 500 ppm

Developmental Toxicity Data:

- Oral (female rabbit): maternal NOAEL; 240mg/kg/day
- Oral (female rabbit): NOAEL for developmental toxicity; 480mg/kg/day

Reproductive Toxicity Data:

- Oral (male and female rat): NOEL for reproductive toxicity; < 500 ppm

Carcinogenicity:

- Inhalation (male and female rat, 2 years): NOEL; > 5,000 ppm

Data for Ethanol (CAS 64-17-5):

Acute Toxicity Data:

Oral LD50 (mouse): > 8,000 mg/kg

- Oral LD50 (female rat): > 5,000 mg/kg
- Inhalation LC50 (rat): 20000 ppm / 10 hr
- Inhalation LC50 (rat): 124.7 mg/l / 4 hr
- Eye irritation: mild

12. Ecological information

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The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l

Toxicity to daphnia (EC50): Daphnia: > 100 mg/l

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential

no data available

Mobility in soil

No information available.

13. Disposal considerations

Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container. Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws.

14. Transport information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

IATA: UN number: UN1219
Proper shipping name: ISOPROPANOL
Class: 3
Packaging group: II

IMDG: UN number: UN1219
Proper shipping name: ISOPROPANOL
Class: 3
Packaging group: II

US DOT: UN number: UN1219

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Proper shipping name: ISOPROPANOL
Class: 3
Packaging group: II

15. Regulatory information

Notification status

Regulatory List	Notification status
TSCA	All listed
DSL	All listed
NDSL	None listed
EINECS	All listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	All listed
ECI	All listed
NZIoC	All listed
PICCS	All listed
TSCA 12(b)	Listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements.

Other regulations

American Conference of Governmental Industrial Hygienists (ACGIH):	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans: Ethanol
International Agency for Research on Cancer (IARC):	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

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	carcinogen by IARC.
U.S. National Toxicology Program (NTP):	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
U.S. Occupational Safety and Health Administration (OSHA):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
California Prop. 65	WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):	No components of this product are subject to the SARA Section 302 (40 CFR 302.4) reporting requirements.
U.S. - CERCLA/SARA - Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities):	No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.
U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):	Isopropanol
U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances:	Isopropanol
U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:	No components found on the California Specifically Regulated Carcinogens List.
U.S. - California - 8 CCR Section 5203 Carcinogens:	No components found on the California Section 5203 Carcinogens List.
U.S. - California - 8 CCR Section 5209 Carcinogens:	No components found on the California Section 5209 Carcinogens List.
U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):	Isopropanol
U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):	Isopropanol
U.S. - New Jersey - Worker and Community Right to Know	Isopropanol

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Act (N.J.S.A. 34:5A-1):

U.S. - Pennsylvania - Part XIII. Worker and Community Right-to-Know Act (Chapter 323 Hazardous Substance List, Appendix A): Isopropanol , Cyclohexane , Methanol

16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

US/Canadian Label Statements:

Isopropanol Recovered

Contains:

Isopropanol (67-63-0)

Symbol(s):



Signal word: Danger

Hazard statements: Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. May cause respiratory irritation.

Precautionary statements:

Prevention: Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/ lighting/ equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash thoroughly after handling.

Response: In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

FIRST AID: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. 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 ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Get medical attention if symptoms occur. Keep out of reach of children. Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood. Since emptied containers retain product residue, follow label warnings even after container is emptied. **IN CASE OF FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers. **IN CASE OF SPILL:** Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. For Large Spills: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams. Additional Components Include: 1-Butanol (71-36-3) , 1-propanol (71-23-8) , Cyclohexane (110-82-7).

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

R-1, S-2, F-3, C-2E