

Safety Data Sheet

Hand sanitizer

GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

Mixtures

Components

| Component | Concentration | |
|---|------------------|-----------------|
| Isopropanol (CAS no.: 67-63-0; EC no.: 414-810-0) | 70-72 % (weight) | 75-77% (volume) |
| Glycerine (CAS no.: 56-81-5; EC no.: 200-289-5) | 2-5 % (weight) | |
| Hydrogen peroxide (CAS no.: 7722-84-1; EC no.: 231-765-0) | < 1 % (weight) | |

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SECTION 4: First-aid measures

Description of necessary first-aid measures

| | |
|-------------------------|--|
| General advice | In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible). Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. |
| If inhaled | <p>Call a poison center or doctor if you feel unwell. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.</p> <p>Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.</p> |
| In case of skin contact | If symptoms occur, wash with water. Call a poison center or doctor if irritation develops or persists. Wash off with soap and plenty of water. Consult a physician. |
| In case of eye contact | <p>Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.</p> <p>Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.</p> |
| If swallowed | <p>Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.</p> <p>Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.</p> |

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical

Carbon oxides

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary. Vapors may form explosive mixtures with air. Flammable liquid and vapor. Cool containers with flooding quantities of water until well after fire is out. Vapors are heavier than air and may travel to a source of ignition and flash back.

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Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection if necessary. Use personal protective equipment. Avoid breathing mist, vapors and spray. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet.

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Do not swallow. Do not eat, drink or smoke when using this product. Do not get the product in your eyes. See Section 8 for information on Personal Protective Equipment. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Keep from contact with oxidizing materials. Do not store in direct sunlight. Store in a tightly closed container. Keep in flammables-area. Protect containers against damage. Keep container closed when not in use.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 56-81-5 (EC: 200-289-5)

Glycerine

ACGIH (USA): 10 mg/m³ TWA inhalation; Cal/OSHA: 10 mg/m³, PNOR PEL inhalation; 5 mg/m³, PNOR PEL inhalation; OSHA: 15 mg/m³ PEL inhalation; 5 mg/m³ PEL inhalation; 15 mg/m³ TWA inhalation; 5 mg/m³ TWA inhalation

CAS: 67-63-0

Isopropanol

ACGIH (USA): 200 ppm, (ST) 400 ppm TLV[®] inhalation; Cal/OSHA: 400 ppm, (ST) 500 ppm PEL inhalation; NIOSH: 400 ppm, (ST) 500 ppm REL inhalation; OSHA: 400 ppm PEL inhalation; 980 mg/m³ PEL inhalation

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Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

To protect your eyes/face (e.g., if responding to a large spill), wear safety glasses. Use equipment for eye protection that meets the standards referenced by OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Skin protection

To protect your hands (e.g., if responding to a large spill), wear protective gloves (rubber, chemical resistant). Consult manufacturer specifications for further information. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

To protect your skin (e.g., if responding to a large spill), wear protective clothing. The clothing should be impervious, flame retardant and antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available.

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|---|--------------------|
| Appearance/form (physical state, color, etc.) | Clear liquid |
| Odor | Alcohol-like |
| Odor threshold | No data available. |
| pH | No data available. |
| Melting point/freezing point | No data available. |
| Initial boiling point and boiling range | No data available. |
| Flash point | No data available. |
| Evaporation rate | No data available. |
| Flammability (solid, gas) | No data available. |
| Upper/lower flammability limits | No data available. |
| Upper/lower explosive limits | No data available. |
| Vapor pressure | No data available. |
| Vapor density | No data available. |
| Relative density | No data available. |
| Solubility(ies) | No data available. |
| Partition coefficient: n-octanol/water | No data available. |
| Auto-ignition temperature | No data available. |
| Decomposition temperature | No data available. |

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| | |
|----------------------|--------------------|
| Viscosity | No data available. |
| Explosive properties | No data available. |
| Oxidizing properties | No data available. |

Other safety information

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under recommended storage conditions.

Chemical stability

Stable under normal storage conditions.

Possibility of hazardous reactions

No data available.

Conditions to avoid

Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Oxidizing agents, Strong bases, Acid anhydrides, Aluminum, Halogenated compounds

Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Components:

Isopropanol

LD50 Oral - Rat - 5,045 mg/kg

LC50 Inhalation - Rat - 16000 ppm - 8 h

LD50 Skin - Rabbit - 12,800 mg/kg

Glycerol

LD50 Oral - Rat - 12,600 mg/kg

LD50 Skin - Rabbit - >10,000 mg/kg

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Acute and delayed symptoms and effects from inhalation, skin and eye contact and ingestion are listed in Section 4.

Skin corrosion/irritation

May cause skin irritation. Seek medical advice if condition persists

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Not expected from normal use. Discontinue use if you experience any irritation or sensitization.

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Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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.

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.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

No data available

Aspiration hazard

No data available.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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Disposal of contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

UN/ID/NA number: UN 1219

Proper shipping name : ISOPROPANOL

Class: 3

Packing group: II

Labels: FLAMMABLE LIQUID

Limited quantities for packages not over 1 liter.

Exempt DOT-SP 9275 for packages under 1 gallon.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

Hydrogen peroxide

CAS-Number: 7722-84-1

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Isopropyl alcohol

CAS number: 67-63-0

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

Isopropyl alcohol

CAS number: 67-63-0

Glycerol

CAS-No. 56-81-5

Hydrogen peroxide

CAS number: 7722-84-1

New Jersey Right To Know Components

Isopropyl alcohol

CAS number: 67-63-0

Glycerol

CAS-No. 56-81-5

Hydrogen peroxide

CAS number: 7722-84-1

Pennsylvania Right To Know Components

Isopropyl alcohol

CAS number: 67-63-0

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Glycerol
CAS-No. 56-81-5

Hydrogen peroxide
CAS number: 7722-84-1

California Prop. 65 Components

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

SECTION 16: Other information

Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall AlchemySpetec be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Alchemy-Spetec has been advised of the possibility of such damages.