

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: ISOPROPANOL

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Type: Solvent Cleaner
Product Name: **ISOPROPYL ALCOHOL**
Part Number(s): **10-1507-A**

Emergency Contact: Chemtrec
Phone: (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam. Liq. 2; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3

Label elements

Hazard Symbol



Signal Word(s)

DANGER

Hazard Statement(s)

Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Take precautionary measures against static discharge.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.

Other hazards

Wash hands and exposed skin after use.
Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Isopropanol	> 65	67-63-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Petroleum distillates	< 30	Trade Secret	Flam. Liq. 4; H227 Skin Irrit. 2; H315 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Acute 2; H401 Aquatic Chronic 2; H411

Additional Information - None

* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Move person to fresh air. If breathing is laboured, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If symptoms develop, obtain medical attention.
Eye Contact	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.
Ingestion	Do not give anything by mouth to an unconscious person. Seek medical treatment. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Aspiration of droplets may cause pulmonary oedema.

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.



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Product Name: ISOPROPANOL

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable Extinguishing Media
- Unsuitable extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or waterspray.
Do not use water jet.

Special hazards arising from the substance or mixture

None

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Avoid contact with skin and eyes. Avoid breathing gas/spray.

Environmental precautions

Prevent liquid entering sewers, basements and workpits.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference to other sections

None

Additional Information

None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing spray. Use product in a well-ventilated area only. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not spray on an open flame or other ignition source.

Conditions for safe storage, including any incompatibilities

- Storage temperature
- Incompatible materials

Keep in a cool, well ventilated place.

This product should be stored away from sources of strong heat or oxidising chemicals.

Specific end use(s)

Cleaner / Degreaser

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		STEL		Note
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Alkanes (C9-C15)	-----	-----	1200 mg/m ³	-----	-----	-----
Isopropanol	67-63-0	400 ppm	200 ppm	-----	400 ppm	-----

Recommended monitoring method
Exposure controls

NIOSH 1550 (Naphthas); NIOSH 1400 (Alcohols)

Appropriate engineering controls

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

Personal protection equipment

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely (Butyl rubber, Nitrile rubber, Neoprene). Check with protective equipment manufacturer's data.



Respiratory protection

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.



Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

None known



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color	Colorless
Odor	Isopropanol / Rubbing Alcohol
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	- 87.9 (- 126 °F) - isopropanol
Boiling point/boiling range (°C):	82.3 (180 °F) - isopropanol
Flash Point (°C)	< 23 (< 73.4 °F)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	2 - 12 % - isopropanol
Vapor pressure (Pascal)	6052 (45.4 mmHg) - isopropanol
Vapor Density (Air=1)	2.1 - isopropanol
Density (g/ml)	Not available
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	< 20.5 @ 40 0°C
Explosive properties	Not explosive.
Oxidizing properties	Not available
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Avoid contact with heat and ignition sources.
Incompatible materials	Strong oxidising agents
Hazardous decomposition product(s)	None anticipated.



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SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Petroleum Distillates (CAS No. Trade Secret) - By analogy with similar materials:

Acute toxicity (calculated / estimated)	Oral: LD50 >5000 mg/kg-bw Dermal: LD50 >2000 mg/kg-bw Inhalation: LC0 ≥5.28 mg/l (Vapor), 4-hr. rat - May cause drowsiness or dizziness.
Irritation/Corrosivity	Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	Oral: NOEAL 750 mg/kg Dermal: NOEAL 0.5 ml/kg bw Inhalation: NOAEL ≥1000 mg/m3

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity	Not to be expected
Reproductive toxicity	Not to be expected

Isopropanol (CAS# 67-63-0):

Acute toxicity	Oral: LD50 = 5.84 g/kg (rat) Inhalation: LC50 > 1000 ppm (rat) 6 hour(s) Dermal: LD50 = 16.4 ml/kg (rabbit) 24 hour(s) May cause drowsiness or dizziness.
Irritation/Corrosivity	Irritating to eyes.
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	NOAEL = 5,000 ppm (Inhalation) May cause drowsiness or dizziness.

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity	There is no evidence of mutagenic potential.
Reproductive toxicity	Not available



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SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None	-----	-----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: March 11, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2: / SECTION 3:

Hazard Statement(s)

- H225: Highly flammable liquid and vapour.
- H227: Combustible liquid.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.



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SECTION 16: OTHER INFORMATION (CONTINUED)

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Product Name: ISOPROPANOL 99%

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Type:	Solvent Cleaner	Emergency Contact:	Chemtrec
Product Name:	ISOPROPYL ALCOHOL	Phone:	(800) 424-9300
Part Number(s):	19-770		

SECTION 2: HAZARDS IDENTIFICATION

GHS Ratings:

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Reproductive toxin	2	Human or animal evidence possibly with other information

GHS Hazards

H302	Harmful if swallowed
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash ... thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P330	Rinse mouth
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P337+P313	Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

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Product Name: ISOPROPANOL 99%**SECTION 2: HAZARDS IDENTIFICATIONS (CONTINUED)****Warning****SECTION 3: COMPOSITION**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Isopropyl alcohol 67-63-0 100.00 percent Vapor Pressure: 31.503 mmHg	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL

SECTION 4: FIRST AID MEASURES

- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult
- Remove and isolate contaminated clothing and shoes.
- Vapors may cause dizziness or suffocation.
- Inhalation or contact with material may irritate or burn skin and eyes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- May cause toxic effects if inhaled or absorbed through skin.
- Wash skin with soap and water.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.



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Product Name: ISOPROPANOL 99%

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: N/A

- Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Vapor explosion hazard indoors, outdoors or in sewers.
- Runoff to sewer may create fire or explosion hazard.
- Containers may explode when heated.
- Many liquids are lighter than water.

Small Fire:

- Dry chemical, CO₂, water spray or alcohol-resistant

Large Fire:

- Water spray, fog or alcohol-resistant foam.
- Do not use straight streams.
- Move containers from fire area if you can do it without risk.

FIREFIGHTING EQUIPMENT:

Dry chemical, CO₂, water spray or alcohol-resistant foam.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled materials.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduced vapors.
- Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers.
- Use clean non-spraking tools to collect absorbed material.

LARGE SPILLS:

- Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor; but may not prevent ignition in closed spaces.



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SECTION 7: HANDLING AND STORAGE

Handling:

- Use only in a well ventilated area.
- Avoid breathing vapor, fumes or mist.
- Avoid contact with eyes, skin, and clothing.
- Potential peroxide former. If peroxide formation is suspected, do not open or move container.
- Ground and bond containers when transferring material.
- Use spark-proof tools and explosion proof equipment.
- Always open containers slowly to allow any excess pressure to vent.
- After opening, purge container with nitrogen before reclosing.
- Follow all SDS/label precautions even after containers are emptied because they may retain product residue.

STORAGE:

- Keep away from heat, sparks, and flame.
- Store containers in a cool, well ventilated place.
- Keep containers closed when not in use.
- Storage under nitrogen atmosphere is recommended.
- Do not allow to evaporate to near dryness.
- Protect from direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Isopropyl alcohol 67-63-0	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety or engineering professionals.

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirators may be necessary if airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Wear impervious gloves to prevent contact with the skin. Wear protective gear as needed-apron, suit, boots.

EYE PROTECTION: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent)

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, Colorless Liquid	Odor: Typical
Vapor Pressure: No Data	Odor threshold: No Data
Vapor Density: 2.08	pH: No Data
Density: No Data	Melting point: No Data
Freezing point: No Data	Solubility: No Data
Boiling Range C: No Data	Flash point: 2.1
Evaporation rate: No Data	Flammability: No Data
Explosive Limits: 2.0-12.0	Partition coefficient (n-octanol/water): No Data
Autoignition temperature: No Data	Decomposition temperature: No Data
Viscosity: No Data	Grams VOC less water: No Data

SECTION 10: STABILITY AND REACTIVITY

Stability

UNSTABLE

Incompatibilities

No Data Found

Hazardous Decomposition

No Data Found

Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 1,870mg/kg
Dermal Toxicity LD50: 4,059mg/kg
Inhalation Toxicity LC50: 73mg/L

Component Toxicity

67-63-0 Isopropyl alcohol
Oral LD50: 1,870 mg/kg (Rat) Dermal LD50: 4,059 mg/kg (Rabbit)

Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal.



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SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

Information of Toxicological Effects:

Aspiration Hazard: May be fatal if swallowed and enters airways.

Skin Corrosion/Irritation: Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Eye Damage/Irritation: Causes mild eye irritation.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

No Data Found

Eyes Skin Respiratory System

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No Data Found

SECTION 12: ECOLOGICAL INFORMATION

Component Ecotoxicity

Isopropyl alcohol 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L
 48 Hr EC50 Daphnia magna: 13299 mg/L
 96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

Always dispose of any waste in accordance with all local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Isopropanol	UN1219	PG II	3



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SECTION 15: REGULATORY INFORMATION

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

NJ Right to Know Chemicals:

67-63-0 Isopropyl alcohol 100.00 %

Pennsylvania Right to Know Chemicals:

67-63-0 Isopropyl alcohol 100.00 %

The following chemicals are reportable under SARA 313.

67-63-0 Isopropyl alcohol

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
USA	CERCLA TSCA	No Yes

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="1"/>	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
FLAMMABILITY	<input type="text" value="3"/>	
PHYSICAL HAZARD	<input type="text" value="0"/>	
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	

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