

## 1: Identification

GHS Product identifierIsopropyl Alcohol 99%Other means of identificationIsopropanol, IPARecommended use of the chemical and restrictions on useGeneral purpose solvent. Use in accordance with manufacturer's instructions.Supplier's identifiermaxill inc., 80 Elm Street, St. Thomas, Ontario, CANADA, N5R 6C8, 1-800-268-8633maxill inc., 500 West Main Street, Cortland, OH, USA, 44410, 1-800-268-8633Emergency phone numberVelocity EHS Emergency Response Services<br/>Canada & US: 1-800-255-3924, International: +1-813-248-0585

# 2: Hazard identification

Classification of the substance or mixture Flammable liquids Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Category 2 Category 2A Category 3 narcotic effects

### GHS label elements, including precautionary statements



Signal word	Danger
Hazard statemer	t Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness
	or dizziness.
Prevention	Keep away from heat, sparks, open flames, hot surfaces and other ignition sources - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use non-sparking tools. Take action to prevent static discharge. Avoid breathing mist, vapors, spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear
	protective gloves and eye protection.
Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help 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 help. In case of fire: Use appropriate media to extinguish.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification None known.

# 3: Composition/information on ingredients

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Mixtures			
Chemical name	<u>CAS number</u>	<u>Percent (w/w)</u>	
Isopropyl alcohol	67-63-0	80 - 100	
MP-REF-60098S	Page 1 of 8		Rev.4: 2024-04-10



### 4: First-aid measures

### Description of necessary first-aid measures

Inhalation 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.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

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

Ingestion Rinse mouth. Get medical help if symptoms occur. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical help if you feel unwell.

Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

Provide general supportive measures and treat symptomatically. 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. Keep victim under observation.

## 5: Fire-fighting measures

*Suitable extinguishing media* Water fog. Alcohol resistant foam. Dry chemical powder.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides.

Special protective equipment and precautions for fire-fighters

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

## 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors/spray. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS *Environmental precautions* Avoid discharge into drains, water courses or onto the ground.

## Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, and or other non-combustible material and transfer to containers for later disposal.



Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

### 7: Handling and storage

### Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

### 8: Exposure controls/personal protection

#### Control parameters

#### **Occupational exposure limits**

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Type V	/alue
PEL	980 mg/m <sup>3</sup>
	400 ppm
Type V	/alue
STEL	400 ppm
TWA	200 ppm
	PEL Type V STEL

### **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type Va	lue	
Isopropyl alcohol	STEL	1225 mg/m <sup>3</sup>	
(CAS 67-63-0)			
		500 ppm	
	TWA	980 mg/m <sup>3</sup>	
		400 ppm	

### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### MP-REF-60098S



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

Eye/face protection	Chemical goggles are recommended.
Skin (hand) protection	Wear appropriate chemical resistant gloves. Nitrile, butyl rubber or neoprene gloves are
	recommended. Other suitable gloves can be recommended by the glove supplier. Be
	aware that the liquid may penetrate the gloves. Frequent change is advisable.
Skin (general) protectior	n Wear appropriate chemical resistant clothing.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended
	exposure limits (where applicable) or to an acceptable level (in countries where exposure
	limits have not been established), an approved respirator must be worn. Respirator type:
	Chemical respirator with organic vapor cartridge.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

## 9: Physical and chemical properties and safety characteristics

Physical state	Liquid
Colour	Clear, colourless
Odour	Alcohol-like
Melting point / freezing point	-89°C
Boiling point	83°C
Flammability	Flammable
Lower and upper explosion limit / flammability limit	2% v/v & 12.7% v/v respectively
Flash point	12°C
Auto-ignition temperature	399°C
Decomposition temperature	Information not available (N/Av)
рН	N/Av
Kinematic viscosity	N/Av
Solubility	Complete
Partition coefficient: n-octanol/water	0.05
Vapour pressure	43.2 hPa @20°C
Density or specific gravity	0.785 g/mL
Relative vapour density	2.1
Particle characteristics	Not applicable

### 10: Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardous reactionsNo dangerous reaction is known under conditions of normal use.Conditions to avoidKeep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid<br/>temperatures exceeding the flash point. Avoid direct light. Contact with incompatible materials.Incompatible materialsAcids. Strong oxidizing agents. Chlorine. Isocyanates.Hazardous decomposition productsNo hazardous decomposition products are known.

## 11: Toxicological information



Information on the likely routes of exposure

Inhalation	May cause drowsiness and dizziness.
	Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	Causes serious eye irritation.
Ingestion	May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Delayed and immediate effects and also chronic effects from short- and long-term exposure Acute toxicity May be harmful if swallowed. Skin corrosion/irritation Prolonged or repeated skin contact may cause drying, cracking, or irritation Serious eye damage/eye irritation Causes serious eye irritation. Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitization. Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity Not classifiable as to carcinogenicity to humans. IARC Monographs. Overall Evaluation of CarcinogenicityNot listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated. This product is not expected to cause reproductive or developmental effects. Reproductive toxicity Specific target organ toxicity - single exposure May cause drowsiness and dizziness. Specific target organ toxicity - repeated exposure Not classified. Aspiration hazard Not an aspiration hazard. Chronic effects Prolonged inhalation may be harmful. Numerical measures of toxicity (such as acute toxicity estimates) See below, "Mixtures" Interactive effects Information not available. Information not available. Where specific chemical data are Information not available Mixtures Components Species **Test Results** Isopropyl alcohol (CAS 67-63-0) Acute Dermal LD50 Rabbit 12870 mg/kg Inhalation Vapor LC50 Rat 72.6 mg/L, 4 Hours Oral LD50 Rat 4710 mg/kg

Mixture versus ingredient information

Information not available.

Other information Information not available.



## 12: Ecological information

## Toxicity

The product is 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.

## Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

## Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Isopropyl alcohol (CAS 67-63-0) 0.05

*Mobility in soil* Expected to be mobile in soil.

### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13: Disposal considerations

## Disposal methods

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose of contents/ container in accordance with local/regional/national/international regulations.

Empty containers may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14: Transport information

TDG	
UN Number	UN1219
UN Proper Shipping Name	ISOPROPANOL
Transport hazard class(es)	Class 3,
Subsidiary risk	Not applicable.
Packing group	II
Environmental hazards	No
Special precautions for user	Read instructions, SDS and emergency procedures before handling.
Transport in bulk according to IN	10 instruments Not applicable.

## 15: Regulatory information

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

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
MP-REF-60098S	Page 6 of 8	Rev.4: 2024-04-10



China	Inventory of E	xisting Chemical Substances in China (IECSC)	Yes
Europe	European Inve	entory of Existing Commercial Chemical Substances	(EINECS) Yes
Europe	European List	of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of E	Yes	
Korea	Existing Chemicals List (ECL)		Yes
New Zealand	New Zealand	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)Yes		
Taiwan	Taiwan Chem	cal Substance Inventory (TCSI)	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).

### 16: Other information

### Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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