# **SAFETY DATA SHEET**



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GHS product identifier	:
Product code	: Not available.
Other means of identification	
Product type	: Liquid.
Relevant identified uses of t	the substance or mixture and uses advised against
Identified uses	
Wiping and cleaning various	surfaces and components. For professional use only.
Supplier's details	:
Manufacturer	:
Emergency telephone number (with hours of	:
operation)	



# Section 2. Hazard(s) identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

**GHS** label elements

Hazard pictograms





Signal word

Danger

**Hazard statements** 

: H225 - Highly flammable liquid and vapor. H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

**Precautionary statements** 

**Prevention** 

P280 - Wear protective gloves, protective clothing and eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 - Use only outdoors or in a well-ventilated area.

P261 - Avoid breathing vapor.

P264 - Wash thoroughly after handling.

Response

: P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER or doctor if you feel unwell.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

**Storage** 

: P405 - Store locked up.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

**Disposal** 

: P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazards not otherwise classified (US)

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture : Substance

**CAS** number/other identifiers

**CAS number** : 67-63-0

Ingredient name	% (w/w)	CAS number
Isopropyl Alcohol	80 - 100	67-63-0



## Section 3. Composition/information on ingredients

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention. If necessary, call a poison center or physician.

Skin contact Ingestion : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: No known significant effects or critical hazards.

Ingestion : Can cause central nervous system (CNS) depression.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: No known significant effects or critical hazards.



### Section 4. First aid measures

Ingestion

: No known significant effects or critical hazards.

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).



### Section 6. Accidental release measures

### Methods and materials for containment and cleaning up

#### Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Vacuum or sweep up material and place in a designated, labeled waste container. Dispose via a licensed waste disposal contractor.

# Section 7. Handling and storage

### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

**United States** 

Occupational exposure limits

Ingredient name	Exposure limits
Isopropyl Alcohol	ACGIH TLV (United States, 3/2019).
	TWA: 200 ppm 8 hours.
	STEL: 400 ppm 15 minutes.
	NIOSH REL (United States, 10/2016).
	TWA: 400 ppm 10 hours.
	TWA: 980 mg/m <sup>3</sup> 10 hours.
	STEL: 500 ppm 15 minutes.
	STEL: 1225 mg/m³ 15 minutes.
	OSHA PEL (United States, 5/2018).
	TWA: 400 ppm 8 hours.
	TWA: 980 mg/m <sup>3</sup> 8 hours.



# Section 8. Exposure controls/personal protection

#### Canada

#### Occupational exposure limits

Ingredient name	Exposure limits
Isopropyl Alcohol	CA Alberta Provincial (Canada, 6/2018).  15 min OEL: 984 mg/m³ 15 minutes.  8 hrs OEL: 200 ppm 8 hours.  15 min OEL: 400 ppm 15 minutes.  8 hrs OEL: 492 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 200 ppm 8 hours.  STEL: 400 ppm 15 minutes.  CA Ontario Provincial (Canada, 1/2018).  TWA: 200 ppm 8 hours.  STEL: 400 ppm 15 minutes.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 400 ppm 8 hours.  TWAEV: 983 mg/m³ 8 hours.  STEV: 500 ppm 15 minutes.  STEV: 1230 mg/m³ 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 400 ppm 15 minutes.  TWA: 200 ppm 8 hours.

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Recommended: Safety glasses.

#### **Skin protection**



## Section 8. Exposure controls/personal protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Recommended: Vapor respirator.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

Flash point

Physical state : Liquid. [Pre-wetted wipers.]

Color : White.

Odor : Rubbing alcohol.
Odor threshold : Not available.

PH : Not available.

Melting point/freezing point : Not available.

Boiling point, initial boiling : Not available.

point, and boiling range

: Closed cup: 12 to 18°C (53.6 to 64.4°F)

**Evaporation rate** : Not available.

Flammability : Highly flammable in the presence of the following materials or conditions: open

flames, sparks and static discharge and shocks and mechanical impacts.

Lower and upper explosion limit/flammability limit Vapor pressure

Upper: 12.7%Not available.Not available.Not available.Insoluble in water.

Relative density
Solubility

Relative vapor density

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: Lower: 2%

Solubility in water : Insoluble.

Miscible with water : No.

Partition coefficient: n-

octanol/water

: Not applicable.



# Section 9. Physical and chemical properties and safety characteristics

Auto-ignition temperature : 399°C (750.2°F)

Decomposition temperature : Not available.

Viscosity : Not available.

Flow time (ISO 2431) : Not available.

Particle characteristics

Median particle size : Not applicable.

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials**: Highly reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Isopropyl Alcohol	LD50 Dermal LD50 Oral		12800 mg/kg 5000 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isopropyl Alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Moderate irritant	Rabbit	_	mg 10 mg	_
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

#### **Sensitization**

There is no data available.

#### Mutagenicity

There is no data available.

#### **Carcinogenicity**

**Classification United States** 



# **Section 11. Toxicological information**

Product/ingredient name	OSHA	IARC	NTP
Isopropyl Alcohol	-	3	-

#### **Classification Canada**

Product/ingredient name	IARC	NTP	ACGIH
Isopropyl Alcohol	3	-	A4

### **Reproductive toxicity**

There is no data available.

#### **Teratogenicity**

There is no data available.

#### Specific target organ toxicity (single exposure)

Name	3 3 3	Route of exposure	Target organs
Isopropyl Alcohol	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

There is no data available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion** : Can cause central nervous system (CNS) depression.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation**: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contactIngestionNo known significant effects or critical hazards.No known significant effects or critical hazards.



## **Section 11. Toxicological information**

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

**Long term exposure** 

Potential immediate : No known significant effects or critical hazards.

effects

**Potential delayed effects**: No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	( 3	Dermal (mg/kg)	,	(vapors)	Inhalation (dusts and mists) (mg/ I)
Isopropyl Alcohol	5000	12800	N/A	N/A	N/A

# **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Isopropyl Alcohol	Acute EC50 7550 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1400000 μg/L Marine water Acute LC50 4200 mg/L Fresh water	Crustaceans - Crangon crangon Fish - Rasbora heteromorpha	48 hours 96 hours

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Isopropyl Alcohol	0.05	-	low

### **Mobility in soil**



# Section 12. Ecological information

Soil/water partition coefficient (Koc)

: No data available.

Other adverse effects

: No known significant effects or critical hazards.

### **Section 13. Disposal considerations**

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN3175	UN3175	UN3175	UN3175
UN proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropyl Alcohol)			
Transport hazard class(es)	4.1	4.1	4.1	4.1
Packing group	II	II	II	II
Environmental hazards	No.	No.	No.	No.

**AERG** : 133

Additional information

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.20-2.22 (Class 4).

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident.

Transport in bulk according: Not available.

to IMO instruments



## **Section 15. Regulatory information**

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Not listed

**Clean Air Act Section 602** 

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** 

(Procursor Chemicals)

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals)

: Not listed

SARA 302/304

### **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

#### **Composition/information on ingredients**

Name	%	Classification
Isopropyl Alcohol		FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

#### **State regulations**

Massachusetts : The following components are listed: Isopropyl Alcohol

**New York** : None of the components are listed.

New Jersey : The following components are listed: Isopropyl Alcohol Pennsylvania : The following components are listed: Isopropyl Alcohol

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

**Canadian lists** 

Canadian NPRI : The following components are listed: Isopropyl Alcohol

**CEPA Toxic substances** : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.



### **Section 15. Regulatory information**

#### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Canada : All components are listed or exempted.United States (TSCA 8b) : All components are active or exempted

: 01/30/2022

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	On basis of test data Calculation method Calculation method

#### **History**

Date of issue/Date of

revision

Date of previous issue : 02/15/2019

Version : 3

Internal code : 120-008

Prepared by : KMK Regulatory Services Inc.

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

