# SAFETY DATA SHEET

Revision Date 07/04/2024

## 1. IDENTIFICATION

### 1.1 Product identifiers

Product Name : Isopropyl Alcohol 99%

Brand : Rexall Solutions

Product Code : RX590263-5, RX590263,RX590263-55,RX590263-1

Product Use : used in Industrial and Automotive

### 1.2 Details of the supplier of the safety data sheet

Manufacturer
Rexall Solutions
27 Keefer Rd,
St. Catharines, ON L2M 6K4

### 1.3 Emergency telephone number

Emergency Phone # : CANUTEC's 24-hour number (1-888-CAN-UTEC (226-8832) or 613-996-6666)

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

**Other hazards which do not result in classification**
May form explosive peroxides.

**WHMIS Classification**

| | | |
|---|---|---|
| B2 | Flammable liquid | Flammable liquid |
| D2B | Toxic Material Causing Other Toxic Effects | Moderate eye irritant |

**GHS Classification**
Flammable liquids (Category 2)
Skin irritation (Category 3)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

**GHS Label elements, including precautionary statements**

Pictogram



Signal word: Danger

Hazard statement(s)

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H316 | Causes mild skin irritation. |
| 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. |
| P261 | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

**Health hazard**: 2
**Chronic Health Hazard**: *
**Flammability**: 3
**Physical hazards**: 0
**Reactivity**: 1

**NFPA Rating**
**Health hazard**: 2
**Fire**: 3
**Reactivity Hazard**: 1

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Isopropanol

Formula : $C_3H_8O$
Molecular Weight : 60.10 g/mol

| CAS-No. | EC-No. | Index-No. | Concentration |
|---|---|---|---|
| **2-Propanol** | | | |
| 67-63-0 | 200-661-7 | 603-117-00-0 | <=100% |

## 4. FIRST AID MEASURES

**General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**
Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIREFIGHTING MEASURES

**Conditions of flammability**
Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**
Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Explosion data - sensitivity to mechanical impact**
no data available

**Explosion data - sensitivity to static discharge**
no data available

**Further information**
Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**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**
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## 7. HANDLING AND STORAGE

**Precautions for safe handling**
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Conditions for safe storage**
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas. Hygroscopic.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value | Control parameters | Basis |
|---|---|---|---|---|
| 2-Propanol | 67-63-0 | TWAEV | 400 ppm<br>983 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| | | TWA | 200 ppm | Canada. British Columbia OEL |
| | | STEL | 400 ppm | Canada. British Columbia OEL |
| | | STEL | 400 ppm<br>984 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | | TWA | 200 ppm<br>492 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | | STEL | 500 ppm<br>1,230 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | | TWA | 400 ppm<br>983 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | | STEV | 500 ppm<br>1,230 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| | | TWA | 200 ppm | USA. ACGIH Threshold Limit Values (TLV) |
| | | STEL | 400 ppm | USA. ACGIH Threshold Limit Values (TLV) |

### Personal protective equipment

#### Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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).

#### Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 60 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection
impervious clothing, Flame retardant 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.

#### Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Specific engineering controls
Use mechanical exhaust or laboratory fumehood to avoid exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

| | |
|---|---|
| Form | liquid |
| Colour | colourless |

### Safety data

| | |
|---|---|
| pH | no data available |
| Melting point/freezing point | -89.5 °C (-129.1 °F) |
| Boiling point | 81.0 - 83.0 °C (177.8 - 181.4 °F) |
| Flash point | 12.0 °C (53.6 °F) - closed cup |
| Ignition temperature | 425 °C (797 °F) |
| Auto-ignition temperature | 425.0 °C (797.0 °F) |
| Lower explosion limit | 2 %(V) |

| | |
|---|---|
| Upper explosion limit | 12.7 %(V) |
| Vapour pressure | 43.2 hPa (32.4 mmHg) at 20.0 °C (68.0 °F)<br>58.7 hPa (44.0 mmHg) at 25.0 °C (77.0 °F) |
| Density | 0.78 g/cm3 |
| Water solubility | completely soluble |
| Partition coefficient: n-octanol/water | log Pow: 0.05 |
| Relative vapour density | no data available |
| Odour | alcohol-like |
| Odour Threshold | no data available |
| Evapouration rate | 3.0 |

## 10. STABILITY AND REACTIVITY

**Chemical stability**
Stable under recommended storage conditions. Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.

**Possibility of hazardous reactions**

Vapours may form explosive mixture with air.

**Conditions to avoid**
Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Materials to avoid**
Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

**Hazardous decomposition products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Oral LD50**
LD50 Oral - rat - 5,045 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity).

**Inhalation LC50**
LC50 Inhalation - rat - 8 h - 16000 ppm

**Dermal LD50**
LD50 Dermal - rabbit - 12,800 mg/kg

**Other information on acute toxicity**
no data available

**Skin corrosion/irritation**
Skin - rabbit - Mild skin irritation

**Serious eye damage/eye irritation**
Eyes - rabbit - Eye irritation - 24 h

**Respiratory or skin sensitisation**
no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)

**Reproductive toxicity**

no data available

**Teratogenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**
Inhalation, Oral - May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**
no data available

**Aspiration hazard**
no data available

**Signs and Symptoms of Exposure**
Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects., Aspiration may lead to:, Lung oedema, Pneumonia

**Synergistic effects**
no data available

**Additional Information**
RTECS: NT8050000

## 12. ECOLOGICAL INFORMATION

**Toxicity**

| | |
|---|---|
| Toxicity to fish | LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h |
| Toxicity to daphnia and other aquatic invertebrates | EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h |
| | Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h |
| Toxicity to algae | EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h |
| | EC50 - Algae - > 1,000.00 mg/l - 24 h |

**Persistence and degradability**
no data available

**Bioaccumulative potential**
No bioaccumulation is to be expected (log Pow <= 4).

**Mobility in soil**
no data available

**PBT and vPvB assessment**
no data available

**Other adverse effects**

no data available

## 13. DISPOSAL CONSIDERATIONS

**Product**
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**
Dispose of as unused product.

## 14. TRANSPORT INFORMATION

**DOT (US)**
UN number: 1219 Class: 3 Packing group: II
Proper shipping name: Isopropanol
Reportable Quantity (RQ):
Marine pollutant: No
Poison Inhalation Hazard: No

**IMDG**
UN number: 1219 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: ISOPROPANOL
Marine pollutant: No

**IATA**
UN number: 1219 Class: 3 Packing group: II
Proper shipping name: Isopropanol

## 15. REGULATORY INFORMATION

**WHMIS Classification**

| | | |
|---|---|---|
| B2 | Flammable liquid | Flammable liquid |
| D2B | Toxic Material Causing Other Toxic Effects | Moderate eye irritant |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Rexall Labs and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.