

**SAFETY DATA SHEET**

*Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)*

**Isopropanol/Isopropanol/Isopropyl alcohol**

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**SECTION 1. Identification of the substance/mixture and of the company**

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**1.1 Product identifier** Isopropanol/Isopropanol/Isopropyl alcohol

**1.2 Relevant identified uses of the product and uses advised against**

**Intended use:** Professional use. Electronics chemical.

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer:** Sunchem AB  
**Postadress:** Box 69  
SE - 433 21 Partille  
**Land:** Sverige  
**Telefon** +46-31-447310

**E-mail:** [purchasing@sunco.se](mailto:purchasing@sunco.se)

**1.4 Telephone emergency number:**

In case of emergency, contact toxicological information, emergency tel 112.  
For non-emergency poison information, see:  
[http://www.who.int/gho/phe/chemical\\_safety/poisons\\_centres/en/](http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/)

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**SECTION 2. Hazards identification**

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**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 (CLP)**

Flammable Liquids (Category 2), H225  
Skin Corrosion/irritation (Category 2), H319  
Specific target organ toxicity (single exposure) (Category 3), H336

**2.2 Label elements**

**Classification according to regulation (EC) No. 1272/2008 (CLP)**

**Pictogram(s)**



**Signal word**

Danger

## Hazard statements

**H225** - Highly flammable liquid and vapour.

**H319** - Causes serious eye irritation.

**H336** - May cause drowsiness or dizziness.

## Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P403+P235 - Store in a well-ventilated place. Keep cool.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Contains** Isopropyl alcohol ( > 90 %)

## 2.3 Other hazards

This mixture does not contain any substances that meets the criteria for PBT or vPvB in accordance with Regulation (EC) No. 1907/2006, Annex XIII.

This mixture does not contain substances at  $\geq 0,1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

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## SECTION 3. Composition/information on ingredients

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### 3.2 Mixtures

#### Declaration of components according to Regulation (EC) No. 1272/2008

Chemical name	CAS No. EC No.	REACH Reg. No. Index No.	Conc. %	Classification
Isopropyl alcohol	67-63-0 200-661-7	01-2119457558-25 603-117-00-0	> 90	Flam Liq 2; H225 Eye Irrit 2; H319 STOT SE 3

For full text of the H-statements see section 16 "Other information".

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## SECTION 4. First aid measures

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### 4.1 Description of first aid measures

**General:** In the least doubt or if symptoms persist, seek medical attention.

**Inhalation:** Call a poison center or a doctor if you feel unwell.

**Skin contact:** Wash with plenty of soap and water. Take off immediately all contaminated clothing. Get medical attention if any discomfort continues.

**Eye contact:** Get medical advice/attention if you feel unwell. Immediately flush with plenty of water for several minutes. Remove any contact lenses and open eyelids widely. If irritation persists: call a doctor.

**Ingestion:** Rinse nose, mouth and throat with water. Contact physician if larger quantity has been consumed. Do not give victim anything to drink if he is unconscious.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause drowsiness or dizziness. Inhalation of vapours may cause respiratory irritation.  
Symptoms/effects after skin contact : May cause moderate irritation. May be degreasing after frequent contact. Repeated exposure may cause skin dryness or cracking.  
Symptoms/effects after eye contact : Causes serious eye irritation.  
Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment. Consult a doctor and show this safety data sheet.

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## SECTION 5. Firefighting measures

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### 5.1 Extinguishing media

**Suitable extinguishing media:** Use water fog, alcohol resistant foam, powder, or carbon dioxide.

**Unsuitable extinguishing media:** Water with a full water jet.

### 5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.

May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).  
Highly flammable gases/vapours/fumes.

### 5.3 Advice to firefighters

Vapours may form explosive mixture with air.

Protection during firefighting : Wear self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

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## SECTION 6. Accidental release measures

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

Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). No open flames. No smoking.

### 6.2 Environmental precautions

Avoid discharges to soil, water or air. Prevent discharges into sewers.

### 6.3 Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in suitable closed container for disposal, according to local regulations. The product is highly flammable, use non-sparking tools/equipment. Never return spills to original containers for re-use. Then rinse the spillage site with plenty of water. Dispose of in accordance with section 13.

### 6.4 Reference to other sections

See Section 8 for personal protection and Section 13 for disposal considerations, respectively.

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## SECTION 7. Handling and storage

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### 7.1 Precautions for safe handling

Store as a flammable liquid.

Avoid spilling, contact with skin, eyes and clothing. Avoid breathing vapour/mist. Ensure adequate ventilation of the work area. Use only outdoors or in a wellventilated area. Ground and bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take action to prevent static discharges. Use non-sparking tools/equipment.

Hygiene measures:

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

Comply with applicable regulations.

Keep cool. Protect from sunlight. Store in a dry place. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materilas: Oxidizing substance.

### 7.3 Specific end use(s)

See Section 1.2.

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## SECTION 8. Exposure controls/personal protection

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### 8.1 Control parameters

#### Occupational Exposure Limits

The national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU(5);

Substances	ppm	mg/m <sup>3</sup>	Interval	Category	Notes
Isopropyl alcohol (propan-2-ol)	400	999	8 hours	TWA	
Isopropyl alcohol (propan-2-ol)	500	1250	15 minutes	STEL	

### 8.2 Exposure control

Assigned personal protection equipment is a guideline. A risk assessment of actual risks may lead to other requirements.

### 8.2.1 Engineering controls

Work in a well-ventilated area. Mechanical ventilation of local exhaust may be required.

### 8.2.2 Personal protection



Do not eat, drink or smoke when using this product. Wash hands after handling.

#### 8.2.2.1 Eye protection

Wear protective goggles according EN standard 166.

#### 8.2.2.2 Hand protection

Use protective gloves according EN standard 374. Recommended glove barrier materials include nitrile rubber:

Layer thickness : >0,40mm. Breakthrough time : >480min.

#### Skin protection

In case of handling large quantities or in the event of spatter, wear protective clothes, i.e. an apron.

#### 8.2.2.3 Respiratory protection

In case of inadequate ventilation, respiratory protection according EN standard 149 (full-face mask with gas filter type AX) or breathing apparatus may be required.

#### 8.2.2.4 Thermal hazard

Highly flammable liquid and vapour.

### 8.3 Environmental exposure control

See Section 6.2.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>a</b>	<b>Physical state</b>	Liquid
<b>b</b>	<b>Colour</b>	Colourless
<b>c</b>	<b>Odour/odour threshold</b>	Slight
<b>d</b>	<b>Melting point/Freezing point</b>	No data available/not applicable
<b>e</b>	<b>Initial boiling point/boiling range</b>	82°C
<b>f</b>	<b>Flammability (solid, gas)</b>	Highly flammable liquid and vapour
<b>g</b>	<b>Lower and upper explosion limit</b>	2-13vol%
<b>h</b>	<b>Flash point</b>	12°C
<b>i</b>	<b>Auto-ignition temperature</b>	400°C
<b>j</b>	<b>Decomposition temperature</b>	No data available/not applicable
<b>k</b>	<b>pH</b>	No data available/not applicable

<b>l</b>	<b>Kinematic viscosity</b>	2 cSt
<b>m</b>	<b>Solubility</b>	Soluble in water and most of organic solvents.
<b>n</b>	<b>Partition coefficient (n-octanol/water)</b>	No data available/not applicable
<b>o</b>	<b>Vapour pressure</b>	4,4 kPa (20°C)
<b>p</b>	<b>Density and/or relative density</b>	0,8 g/cm <sup>3</sup>
<b>q</b>	<b>Relative vapour density</b>	No data available/not applicable
<b>r</b>	<b>Particle characteristics</b>	No data available/not applicable

**VOC: 90%**

## 9.2 Other information

Highly flammable liquid and vapour.

No more specific or information about safety characteristics.

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## SECTION 10. Stability and reactivity

### 10.1 Reactivity

Highly flammable liquid and vapour.

### 10.2 Chemical stability

Stable under recommended storage and usage conditions.

Highly flammable liquid and vapour.

Vapours may form explosive mixture with air.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4 Conditions to avoid

Avoid exposure to high temperatures or direct sunlight and sparks. Avoid heat, flames and other sources of ignition. Extremely high and low temperatures.

### 10.5 Incompatible materials

Strong oxidizing substances.

### 10.6 Hazardous decomposition products

During fire or high temperatures, carbon monoxide (CO) may be formed. Corrosive vapours. Flammable vapours.

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## SECTION 11. Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological tests have been performed on the product. The product is not classified as harmful.

Estimated value of **ATE**:

ATE oral: > 2000 mg/kg

## General toxicological information

Hazardous components CAS no.	Value Type	Value	Route of exposure	Exposure time	Species	Method
Isopropyl alcohol	LD50	4710 mg/kg	Oral		Rat	
Isopropyl alcohol	LD50	12800 mg/kg	Dermal		Rabbit	
Isopropyl alcohol	LC50	72,6 mg/l	Inhalation		Rat	

## Classification according to GHS (1272/2008/EC, CLP)

<b>Acute toxicity:</b>	Not classified
<b>Skin corrosion/irritation:</b>	Not classified
<b>Serious eye damage/eye irritation:</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified
<b>STOT – single exposure:</b>	May cause drowsiness or dizziness.
<b>STOT – repeated exposure:</b>	Not classified
<b>Aspiration hazard:</b>	Not classified

## 11.2 Information on other hazards

This mixture does not contain substances at  $\geq 0,1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

## SECTION 12. Ecological information

### 12.1 Toxicity

Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms. Not regarded as dangerous to the environment. This does not, however, rule out the possibility that large or frequent smaller emissions of the product may be harmful to the environment.

Hazardous components CAS no.	Value Type	Value	Route of Exposure	Exposure Time	Species	Method
Isopropyl alcohol	LC50	4200 mg/l	Vatten	96 h	Fish	
Isopropyl alcohol	LC50	13300 mg/l	Vatten	48 h	Daphnia	

### 12.2 Persistence and degradability

Persistence and degradability	Readily biodegradable.
BOD (% of ThOD)	0.3 - 0.6 % ThOD BOD5/COD
Biodegradation	84 % (OECD 301D method)

### 12.3 Bioaccumulative potential

No bioaccumulation.

Bioconcentration factor (BCF REACH)	< 100
Log Pow	2.97

#### 12.4 Mobility in soil

Components are water soluble. The product is volatile and will evaporate quickly.

#### 12.5 Results of PBT and vPvB assessment

The substance/mixture does not fulfil the criteria to be identified as PBT substance or vPvB substance.

#### 12.6 Endocrine disrupted properties

This mixture does not contain substances at  $\geq 0,1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

#### 12.7 Other adverse effects

No data available.

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### SECTION 13. Disposal considerations

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#### 13.1 Waste treatment methods

Dispose according to Directive 2008/98/EC on waste (Waste Framework Directive) and in compliance with local and national legislation. Do not allow to enter sewers. Transfer to a waste container and send for destruction.

Packaging may still contain hazardous residues and disposal should be undertaken by a licensed waste contractor. Any disposal practice must comply with local and national laws and regulations.

*Suggested EWC codes*

07 06 04\* - other organic solvents, washing liquids and mother liquors.

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### SECTION 14. Transport information

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#### 14.1 UN number

ADR	1219
RID	1219
IMDG	1219
ICAO/IATA	1219

#### 14.2 UN proper shipping name

ADR	ISOPROPYL ALCOHOL
RID	ISOPROPYL ALCOHOL
IMDG	ISOPROPYL ALCOHOL
ICAO/IATA	ISOPROPYL ALCOHOL

### 14.3 Transport hazard class(es)



ADR	3
RID	3
ADN	3
IMDG	3
ICAO/IATA	8

### 14.4 Packaging group

ADR	II
RID	II
IMDG	II
ICAO/IATA	II

### 14.5 Environmental hazards

ADR	NO
RID	NO
IMDG	NO
ICAO/IATA	NO

### 14.6 Special precautions for user

#### Overland transport

Special provisions (ADR)	:	601
Limited quantities (ADR)	:	11
Excepted quantities (ADR)	:	E2
Hazard identification number (Kemler No.)	:	33



Orange plates	:	
EAC code	:	•2YE

#### - Transport by sea

Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-D
Flash point (IMDG)	:	12°C
	:	c.c.

#### - Air transport

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y341
Special provisions (IATA)	:	A180

#### Rail transport

No data available

#### 14.7 Maritime transport in bulk according to IMO instruments.

Not applicable.

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## SECTION 15. Regulatory information

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

Regulation (EC) No 1272/2008 (CLP) of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures. Latest update of legal requirements 23/10/2024 of CLP regulation.

Regulation (EC) No 1907/2006 (REACH) of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.  
Regulation (EU) 2020/878 of the European Commission, supplement for REACH appendix II.

The national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU(5); EH40/2005: Workplace exposure limits updates 2020.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

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## SECTION 16. Other information

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Version: 4.0

New EU regulations (REACH/CLP) according SDS content/sections/tables and new SDS from raw data.

### Explanations to abbreviations in Section 3

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### Explanations to abbreviations in Section 14

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
RID	Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by rail)
IMDG	IMDG code (International Maritime Dangerous Goods Code)
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	International Air Transport Association

This safety data sheet has been produced and reviewed by Chemgroup Scandinavia AB.