

# SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **3280 Finish Inspection**

Creation date: **22.03.2023**, Revision: **14.08.2024**, Version: **1.1**

## Section 1: Identification of the substance/mixture and of the company/undertaking

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### 1.1 Product identifier

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**Product name**

3280 Finish Inspection

**UFI:**

NM29-ROES-X008-H24R



<https://my.chemius.net/p/xREiPw/en/pd/en>

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

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**Relevant identified uses**

No information.

**Uses advised against**

No information.

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

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**Supplier**

SILCO d.o.o.  
Sentrupert 5a  
3303 Gomilsko, Slovenia  
+386 3 703 3180  
msds@silco.si

### 1.4 Emergency Telephone Number

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**Emergency**

111

**Supplier**

112

## Section 2: Hazards identification

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### 2.1 Classification of the substance or mixture

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

Flam. Liq. 2; H225 Highly flammable liquid and vapour.

Eye Irrit. 2; H319 Causes serious eye irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

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## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)



#### Signal word: **DANGER**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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

P240 Ground and bond container and receiving equipment.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

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

P501 Dispose of contents/container in accordance with national regulation.

#### **Contains:**

isopropanol

## 2.3 Other hazards

### **PBT/vPvB**

No information.

### **Endocrine disrupting properties**

The product does not contain substances with the potential for endocrine disorders.

### **Additional information**

No information.

## Section 3: Composition/information on ingredients

### 3.1 Substances

For mixtures see 3.2.

### 3.2 Mixtures

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Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
<b>isopropanol</b>	67-63-0 200-661-7 603-117-00-0	40-50	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	/
<b>Deionized water</b>	7732-18-5 231-791-2 -	40-50	/	/

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. Obtain professional medical help!

#### Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician. Show the physician the safety data sheet or label.

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

#### Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Vapours may cause drowsiness and dizziness.

#### Following skin contact

Contact with skin may cause irritation (redness, itching).

#### Following eye contact

Redness, tearing, pain.

#### Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

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

Treat symptomatically.

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## Section 5: Firefighting measures

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### 5.1 Extinguishing media

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#### **Suitable extinguishing media**

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### **Unsuitable extinguishing media**

Full water jet.

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

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#### **Hazardous combustion products**

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

### 5.3 Advice for firefighters

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#### **Protective actions**

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area.

#### **Special protective equipment for fire-fighters**

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

#### **Additional information**

No information.

## Section 6: ACCIDENTAL RELEASE MEASURES

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

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#### **For non-emergency personnel**

##### **Protective equipment**

No information.

##### **Precautionary measures**

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

##### **Emergency procedures**

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

##### **For emergency responders**

Use personal protective equipment.

### 6.2 Environmental precautions

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Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

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## 6.3 Methods and material for containment and cleaning up

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### For containment

Stem the spill if this does not pose risks.

### For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark-proof tools. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

### Other information

No information.

## 6.4 Reference to other sections

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See also sections 8 and 13.

## Section 7: Handling and storage

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### 7.1 Precautions for safe handling

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#### Protective measures

##### Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

##### Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

##### Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

##### Other measures

No information.

##### Advice on general occupational hygiene

Use good personal hygiene practices - wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

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

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#### Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition - no smoking.

#### Packaging materials

Store only in original container.

#### Requirements for storage rooms and vessels

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Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

## Storage temperature

No information.

## Storage class

No information.

## Further information on storage conditions

No information.

## 7.3 Specific end use(s)

### Recommendations

No information.

### Industrial sector specific solutions

No information.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure limit values

Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
<b>isoprop anol</b>	/	/	/	/	Short term (< 30 minut)	/
<b>Propan -2-ol (67-63-0)</b>	999	400	1250	500	/	/

#### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

#### DNEL/DMEL values

##### For product

No information.

##### For components

Name	Type	Exposure route	exp. frequency	Remark	Value
<b>isopropanol</b>	Worker	inhalation	long term systemic effects	/	500 mg/m <sup>3</sup>

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Name	Type	Exposure route	exp. frequency	Remark	Value
<b>isopropanol</b>	Worker	dermal	long term systemic effects	/	888 mg/kg bw/day
<b>isopropanol</b>	Consumer	inhalation	long term systemic effects	/	89 mg/m <sup>3</sup>
<b>isopropanol</b>	Consumer	dermal	long term systemic effects	/	319 mg/kg bw/day
<b>isopropanol</b>	Consumer	oral	long term systemic effects	/	26 mg/kg bw/day
<b>Deionized water</b>	Worker	inhalation	systemic effects	chronic	1.5 mg/m <sup>3</sup>
<b>Deionized water</b>	Consumer	oral	local effects	/	25 mg/kg
<b>Deionized water</b>	Consumer	inhalation		systemic, chronic	1.5 mg/m <sup>3</sup>

## PNEC values

### For product

No information.

### For components

Name	Exposure route	Remark	Value
<b>isopropanol</b>	fresh water	/	140.9 mg/L
<b>isopropanol</b>	water, intermittent release	/	140.9 mg/L
<b>isopropanol</b>	marine water	/	140.9 mg/L
<b>isopropanol</b>	water treatment plant	/	2251 mg/L
<b>isopropanol</b>	fresh water sediment	dry weight	552 mg/kg
<b>isopropanol</b>	marine water sediment	dry weight	552 mg/kg
<b>isopropanol</b>	soil	dry weight	28 mg/kg
<b>isopropanol</b>	secondary poisoning	food	160 mg/kg

## 8.2 Exposure controls

### Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

#### Structural measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

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## Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

## Personal protective equipment

### Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

### Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

## Appropriate materials

### Skin protection

Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

### Thermal hazards

No information.

## Environmental exposure controls

### Substance/mixture related measures to prevent exposure

No information.

### Instruction measures to prevent exposure

No information.

### Organisational measures to prevent exposure

No information.

### Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Important health, safety and environmental information

Physical state	liquid
Shape	No information.
Colour	colourless
Odour	alcohol
Odour threshold	No information.
Melting/freezing point	-21 °C



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<b>Boiling point or initial boiling point and boiling range</b>	> 82 °C at 1013 hPa
<b>Flammability</b>	No information.
<b>Lower and upper explosion limit</b>	2 – 12 % v/v (propan-2-ol)
<b>Flash point</b>	18 °C
<b>Auto-ignition temperature</b>	No information.
<b>Decomposition temperature</b>	No information.
<b>pH</b>	7
<b>Viscosity</b>	No information.
<b>Solubility</b>	No information.
<b>Partition coefficient n-octanol/water (log value)</b>	No information.
<b>Vapour pressure</b>	42 hPa at 20 °C
<b>Density</b>	0.9 kg/L
<b>Relative vapour/gas density</b>	No information.
<b>Particle characteristics</b>	No information.

## 9.2 Other information

### Information with regard to physical hazard classes

No information.

### Other safety characteristics

<b>Weight organic solvents</b>	0 g/l
<b>Solids content</b>	0 % 0 vol %

## Section 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No information.

### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

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## 10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

## 10.5 Incompatible materials

Oxidants.

## 10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

## Section 11: Toxicological information

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

#### (a) Acute toxicity

##### For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
isopropanol	oral	LD <sub>50</sub>	/	/	2000 mg/kg	/	/
isopropanol	oral	LD <sub>50</sub>	mouse	/	3600 mg/kg	/	/
isopropanol	oral	LD <sub>50</sub>	rabbit	/	6410 mg/kg	/	/
isopropanol	oral	LD <sub>50</sub>	rat	/	4570 mg/kg	/	/
isopropanol	oral	LD <sub>50</sub>	rat	/	> 5000 mg/kg	/	/
isopropanol	oral	LD <sub>50</sub>	rat	/	5840 mg/kg	OECD 401	experimental value
isopropanol	oral	ATE	/	/	4396 mg/kg	/	/
isopropanol	oral	LDLo	human	/	100 ml	/	estimate
isopropanol	dermal	LD <sub>50</sub>	/	/	2000 mg/kg	/	/
isopropanol	dermal	LD <sub>50</sub>	mouse	/	6 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
isopropanol	dermal	LD <sub>50</sub>	rabbit	/	13400 mg/kg	/	/
isopropanol	dermal	LD <sub>50</sub>	rat	/	12800 mg/kg	/	/
isopropanol	dermal	LD <sub>50</sub>	rabbit	/	139000 mg/kg	/	/
isopropanol	dermal	LD <sub>50</sub>	rat	/	12800 mg/kg	/	/
isopropanol	dermal	LD <sub>50</sub>	rabbit	4 h	> 2000 mg/kg	OECD 402	experimental value
isopropanol	dermal	LD <sub>50</sub>	rabbit	24 h	16.4 ml/kg	OECD 402	experimental value
isopropanol	dermal	ATE	/	/	12870 mg/kg	/	/
isopropanol	inhalation	LC <sub>50</sub>	/	4 h	5 mg/l	/	vapour
isopropanol	inhalation	LC <sub>50</sub>	mouse	4 h	27.2 - 48 mg/l	/	vapour
isopropanol	inhalation	LC <sub>50</sub>	rat	4 h	72.6 mg/l	/	/
isopropanol	inhalation	LC <sub>50</sub>	rat	4 h	30 mg/l	/	vapour
isopropanol	inhalation	LC <sub>50</sub>	rat	4 h	30 mg/l	/	dust/aerosol
isopropanol	inhalation	LC <sub>50</sub>	rabbit	4 h	12800 ppmV	/	gas
isopropanol	inhalation	LC <sub>50</sub>	rat	4 h	30 ppmV	/	gas
isopropanol	inhalation	LC <sub>50</sub>	rat	8 h	> 10 mg/l	/	/
isopropanol	inhalation	LC <sub>50</sub>	/	/	> 5000 mg/l	/	/
isopropanol	inhalation	LC <sub>50</sub>	rat	4 h	72.6 mg/l	/	/
isopropanol	inhalation	LC <sub>50</sub>	rat	4 h	28500 ppm	/	/
isopropanol	inhalation	LC <sub>50</sub>	rat	4 h	30000 mg/m <sup>3</sup>	/	/
isopropanol	inhalation	LC <sub>50</sub>	rat	6 h	> 25000 mg/l	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
<b>isopropanol</b>	inhalation	LC <sub>50</sub>	rat	8 h	47.5 mg/m <sup>3</sup>	/	/
<b>isopropanol</b>	INV	LD <sub>50</sub>	rat	/	1088 mg/kg bw	/	/
<b>isopropanol</b>	SCU	LD <sub>50</sub>	mouse	/	6 mg/kg bw	/	/
<b>isopropanol</b>	inhalation (vapours)	LC <sub>50</sub>	rat	6 h	> 10000 ppm	OECD 403	experimental value
<b>Deionized water</b>	oral	LD <sub>50</sub>	rat	/	> 90 ml/kg	/	/

## Additional information

The product is not classified as acutely toxic.

## (b) Skin corrosion/irritation

### For components

Name	Species	Time	result	Method	Remark
<b>isopropanol</b>	/	/	(Rabbit)	/	/
<b>isopropanol</b>	/	/	Irritating.	/	/
<b>isopropanol</b>	/	/	Non-irritant.	/	/
<b>isopropanol</b>	/	/	With prolonged exposure leads to dry skin.	/	/
<b>isopropanol</b>	/	/	{p:13263}	/	/
<b>isopropanol</b>	human	/	Non-irritant.	Human observation	experimental value
<b>isopropanol</b>	rabbit	/	Mild irritating.	OECD 404 (Acute Dermal Irritation/Corrosion)	/

## (c) Serious eye damage/irritation

### For components

Name	Exposure route	Species	Time	result	Method	Remark
<b>isopropanol</b>	/	/	/	Irritating.	/	/
<b>isopropanol</b>	/	/	/	Steam at high concentrations cause irritation.	/	/

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Name	Exposure route	Species	Time	result	Method	Remark
<b>isoprop anol</b>	/	rabbit	/	Severe irritation.	OECD 405 Acute Eye Irritation/Corrosion	experimental value
<b>isoprop anol</b>	/	rabbit	/	No irritant effect.	OECD 405 Acute Eye Irritation/Corrosion	/

## Additional information

Causes serious eye irritation.

## (d) Respiratory or skin sensitisation

### For components

Name	Exposure route	Species	Time	result	Method	Remark
<b>isoprop anol</b>	dermal	/	/	Guinea pig	/	/
<b>isoprop anol</b>	dermal	/	/	Non sensitising.	/	/
<b>isoprop anol</b>	dermal	/	/	OECD Guideline 406 (Skin Sensitisation)	/	/
<b>isoprop anol</b>	dermal	Guinea pig (male/female)	/	Non sensitising.	Buehler test	/
<b>isoprop anol</b>	dermal	Guinea pig (male/female)	21 days	Non sensitising.	OECD 406 (Skin Sensitization)	24, 48 h; experimental value

## Additional information

The product is not classified as sensitising.

## (e) (Germ cell) mutagenicity

### For components

Name	Type	Species	Time	result	Method	Remark
<b>isoprop anol</b>	in-vitro mutagenicity	/	/	Negative with metabolic activation, negative without metabolic activation.	/	/

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Name	Type	Species	Time	result	Method	Remark
<b>isopropanol</b>	in-vitro mutagenicity	Bacteria ( <i>S. typhimurium</i> )	/	Negative.	OECD 471 (EU B. 12/13)	experimental value
<b>isopropanol</b>	in-vitro mutagenicity	Chinese hamster ovary	/	Negative.	OECD 476	experimental value
<b>isopropanol</b>	in-vivo mutagenicity	mouse	/	Negative.	OECD 474	experimental value

## (f) Carcinogenicity

### For components

Name	Exposure route	Type	Species	Time	Value	result	Method	Remark
<b>isopropanol</b>	inhalation (vapours)	NOEL	mouse	546 days	5000 ppm	No effect	OECD 451 Carcinogenicity Studies	5 days per week, 6 h per day; experimental value

## (g) Reproductive toxicity

### For components

Name	Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
<b>isopropanol</b>	Developmental toxicity	NOAEL	rat	1 months	596 mg/kg/day	/	OECD 414	Weight of evidence
<b>isopropanol</b>	Effects on fertility	NOAEL (F1)	rat	/	500 mg/kg/day	/	OECD 416	Weight of evidence
<b>isopropanol</b>	Effects on fertility	NOEL	rat	70 days	853 mg/kg/day	/	OECD 415	Weight of evidence

## Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

## (h) STOT-single exposure

### For components

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Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Rem
isopropanol	inhalation	/	/	/	/	/	/	Vapors may cause drowsiness and dizziness.	/	/
isopropanol	inhalation	/	/	/	/	/	/	Causes respiratory tract irritation.	/	/
isopropanol	inhalation	/	/	/	/	/	/	Symptoms: headache, dizziness, nausea, vomiting, drowsiness.	/	/

## Additional information

May cause drowsiness or dizziness.

## (i) STOT-repeated exposure

### For components

Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Rem
isopropanol	inhalation (vapours)	NOAEL	rat	104 weeks	sub-chronic	general	5000 ppm	No effect.	OECD 451	6 h   day: wee
isopropanol	inhalation (vapours)	-	rat	6 h	sub-chronic	central nervous system	5000 ppm	Drowsiness, dizziness	OECD 403	exp val

## Additional information

STOT RE (repeated exposure): Not classified.

## (j) Aspiration hazard

No information.

## Additional information

Aspiration hazard: Not classified.

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

No information.

## Interactive effects

No information.

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## 11.2 Information on other hazards

### Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

### Other information

No information.

## Section 12: Ecological information

### 12.1 Toxicity

#### Acute (short-term) toxicity

##### For components

Name	Type	Value	Exposure time	Species	organism	Method	Remark
isopropal nol	LC <sub>50</sub>	9640 mg/L	96 h	fish	/	/	/
isopropal nol	LC <sub>50</sub>	> 100 mg/L	48 h	fish	/	/	/
isopropal nol	LC <sub>50</sub>	9640 mg/L	96 h	fish	/	/	/
isopropal nol	LC <sub>50</sub>	9.64 mg/L	96 h	fish	/	/	/
isopropal nol	LC <sub>50</sub>	9640 mg/L	96 h	fish	/	/	/
isopropal nol	LC <sub>50</sub>	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
isopropal nol	LC <sub>50</sub>	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
isopropal nol	LC <sub>50</sub>	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
isopropal nol	LC <sub>50</sub>	mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	/
isopropal nol	LC <sub>50</sub>	8970 mg/L	48 h	fish	<i>Leuciscus idus</i>	/	/



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Name	Type	Value	Exposure time	Species	organism	Method	Remark
<b>isopropanol</b>	LC <sub>50</sub>	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
<b>isopropanol</b>	LC <sub>50</sub>	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	/
<b>isopropanol</b>	LC <sub>50</sub>	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
<b>isopropanol</b>	LC <sub>50</sub>	9714 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	LC <sub>50</sub>	2285 - 13299 mg/L	48 h	daphnia	/	/	/
<b>isopropanol</b>	EC <sub>50</sub>	13299 mg/L	48 h	crustacea	/	/	/
<b>isopropanol</b>	EC <sub>50</sub>	13299 mg/L	48 h	crustacea	/	/	/
<b>isopropanol</b>	EC <sub>50</sub>	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	EC <sub>50</sub>	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	EC <sub>50</sub>	mg/L	48 h	crustacea	<i>Daphnia magna</i>	202 (Daphnia sp. Acute Immobilisation Test)	/
<b>isopropanol</b>	EC <sub>50</sub>	3.8 mg/L	8 h	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	EC <sub>50</sub>	9714 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	EC <sub>50</sub>	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	EC <sub>50</sub>	1800 mg/L	24 h	algae	/	/	/
<b>isopropanol</b>	EC <sub>50</sub>	1000 mg/L	72 h	algae	/	/	/

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Name	Type	Value	Exposure time	Species	organism	Method	Remark
isopropanol	EC <sub>50</sub>	1800 mg/L	24 h	algae	/	/	/
isopropanol	EC <sub>50</sub>	> 1000 mg/L	72 h	algae	/	/	/
isopropanol	EC <sub>50</sub>	1000 mg/L	72 h	algae	/	/	/
isopropanol	EC <sub>50</sub>	1000 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
isopropanol	EC <sub>50</sub>	100 mg/kg	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
isopropanol	EC <sub>50</sub>	1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
isopropanol	EC <sub>50</sub>	> 1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	UBA	Experimental value growth rate
isopropanol	EC <sub>50</sub>	5175 mg/L	/	bacteria	/	/	/
isopropanol	EC <sub>50</sub>	5175 mg/L	/	bacteria	/	/	/
isopropanol	EC <sub>50</sub>	41676 mg/L	30 min	bacteria	Activated sludge	DIN EN ISO 8192	experimental value activated sludge
isopropanol	EC <sub>50</sub>	1050 mg/L	16 h	bacteria	<i>Pseudomonas putida</i>	/	/
isopropanol	EC <sub>50</sub>	5175 mg/L	18 h	bacteria	<i>Pseudomonas putida</i>	/	/
isopropanol	EC <sub>50</sub>	9714 mg/L	24 h	daphnia	/	/	/
isopropanol	EC <sub>50</sub>	9714 mg/L	24 h	daphnia	/	/	/
isopropanol	EC <sub>50</sub>	13299 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	experimental value

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Name	Type	Value	Exposure time	Species	organism	Method	Remark
<b>isopropanol</b>	EC <sub>50</sub>	13299 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	EC <sub>50</sub>	> 100 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	EC <sub>50</sub>	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)	/
<b>isopropanol</b>	EC <sub>50</sub>	10000 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	EC <sub>50</sub>	1000 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	EC <sub>50</sub>	mg/L	96 h	Aquatic plants	<i>Scenedesmus subspicatus</i>	OECD Guideline 201 (Alga, Growth Inhibition Test)	/
<b>isopropanol</b>	EC <sub>50</sub>	> 1000 mg/L	/	microorganisms	Activated sludge	/	/
<b>isopropanol</b>	IC <sub>50</sub>	1000 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
<b>isopropanol</b>	IC <sub>50</sub>	1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
<b>isopropanol</b>	ErC <sub>50</sub>	> 100 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
<b>isopropanol</b>	ErC <sub>50</sub>	> 1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
<b>isopropanol</b>	EC <sub>10</sub>	5175 mg/L	18 h	bacteria	<i>Pseudomonas putida</i>	/	/

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Name	Type	Value	Exposure time	Species	organism	Method	Remark
<b>isopropanol</b>	EC <sub>10</sub>	5175 mg/L	18 h	activated sludge	<i>Pseudomonas putida</i>	DIN 38412/part 8	/
<b>isopropanol</b>	LC <sub>0</sub>	100 mg/L	48 h	fish	<i>Leuciscus idus</i>	/	/
<b>isopropanol</b>	LC/EC/IC <sub>50</sub>	100 - 1000 mg/L	/	fish	/	/	/
<b>isopropanol</b>	LC/EC/IC <sub>50</sub>	> 1000 mg/L	/	daphnia	/	/	/
<b>isopropanol</b>	LC/EC/IC <sub>50</sub>	100 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	LC <sub>50</sub> /EC <sub>50</sub> /IC <sub>50</sub>	> 1000 mg/L	/	algae	/	/	/
<b>isopropanol</b>	LC <sub>50</sub> /EC <sub>50</sub> /IC <sub>50</sub>	> 1000 mg/L	/	bacteria	/	/	/
<b>isopropanol</b>	EC <sub>50</sub>	> 1000 mg/L	96 h	algae	<i>Desmodesmus subspicatus</i>	OECD Guideline 201 (Alga, Growth Inhibition Test)	/
<b>isopropanol</b>	LC <sub>50</sub>	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	Flow-through system, Fresh water, Experimental value lethal

## Chronic (long-term) toxicity

### For components

Name	Type	Value	Exposure time	Species	organism	Method	Remark
<b>isopropanol</b>	NOEC	30 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/
<b>isopropanol</b>	NOEC	1800 mg/l	7 days	algae	<i>Algae</i>	/	/
<b>isopropanol</b>	LOEC	1000 mg/l	8 days	algae	/	/	/

## 12.2 Persistence and degradability

### Abiotic degradation, physical- and photo-chemical elimination

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No information.

## Biodegradation

### For components

Name	Type	Rate	Time	Evaluation	Method	Remark
isopropanol	aerobic	%	/	readily biodegradable	/	/
isopropanol	aerobic	%	/	readily biodegradable	OECD 301 E	/
isopropanol	aerobic	53 %	/	/	EU C.6	/
isopropanol	aerobic	86 %	/	readily biodegradable	/	100 mg/l
isopropanol	aerobic	95 %	/	readily biodegradable	OECD 301 E	/
isopropanol	aerobic	95 %	/	readily biodegradable	OECD 301 E	experimental value
isopropanol	aerobic	95 %	/	readily biodegradable	OECD 301 E	/
isopropanol	BOD <sub>5</sub> /COD	0.53	/	/	/	/
isopropanol	BOD <sub>5</sub> /COD	0.53	/	/	/	/
isopropanol	COD	2.23 g O <sub>2</sub> /g	/	/	/	/
isopropanol	BOD	1.19 g O <sub>2</sub> /g	/	/	/	/

## 12.3 Bioaccumulative potential

### Partition coefficient n-octanol/water (log value)

#### For components

Name	Value	Temperature °C	pH	Concentration	Method
isopropanol	0.05	/	/	/	/
isopropanol	0.05	/	/	/	Experimental value, BASF test

### Bioconcentration factor (BCF)

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## For components

Name	Species	organism	Value	Duration	Evaluation	Method	Remark
<b>isopropanol</b>	organism	/	< 100	/	/	/	/
<b>isopropanol</b>	BCF	/	3	/	/	/	/

## 12.4 Mobility in soil

### Known or predicted distribution to environmental compartments

No information.

### Surface tension

#### For components

Name	Value	Temperature °C	Concentration	Method	Remark
<b>isopropanol</b>	22400 N/m	/	/	/	/

### Adsorption/Desorption

#### For components

Name	Type	Criterion	Value	Evaluation	Method	Remark
<b>isopropanol</b>	Soil	Henry constant (H)	0.82 Pa.m <sup>3</sup> / mol	/	/	/
<b>isopropanol</b>	Soil	log KOC	1.5	/	/	/

## 12.5 Results of PBT and vPvB assessment

No evaluation.

## 12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

## 12.7 Other adverse effects

No information.

## 12.8 Additional information

### For product

Product is not classified as hazardous for environment. Do not allow to reach ground water, water courses or sewage system.

### For components

#### **isopropanol**

Product is easily biodegradable.

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## Section 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product / Packaging disposal

##### Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

##### Waste codes / waste designations according to LoW

No information.

##### Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapours.

##### Waste codes / waste designations according to LoW

No information.

##### Waste treatment-relevant information

No information.

##### Sewage disposal-relevant information

No information.

##### Other disposal recommendations

No information.

## Section 14: Transport information

ADR/RID	IMDG	IATA	ADN
<b>14.1 UN number or ID number</b>			
UN 1219	UN 1219	UN 1219	UN 1219
<b>14.2 UN proper shipping name</b>			
ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL (ISOPROPYL ALCOHOL)
<b>14.3 Transport hazard class(es)</b>			
3	3	3	3





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ADR/RID	IMDG	IATA	ADN
			
<b>14.4 Packing group</b>			
II	II	II	II
<b>14.5 Environmental hazards</b>			
NO	NO	NO	NO
<b>14.6 Special precautions for user</b>			
Limited quantities 1 L Special provisions 601 Packing Instructions P001, IBC02, R001 Transport category 2 Tunnel restriction code (D/E) Classification code F1	Limited quantities 1 L EmS F-E, S-D Flash point 18 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y341 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 1 L Packing Instructions (Pkg Inst) 353 Maximum Net Quantity/Package (Max Net Qty/Pkg) 5 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 364 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg) 60 L Special provisions A180 Excepted quantities E2 ERG code 3L	Limited quantities 1 L



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ADR/RID	IMDG	IATA	ADN
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

## Section 15: Regulatory information

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

#### Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

#### Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## Section 16: Other information

#### Indication of changes

No information.

#### Key literature references and sources for data

No information.

#### Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW - see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship

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REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC)  
No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum

SME - Small and Medium sized Enterprises

STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

## **List of relevant H phrases**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.