

**SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006****TWEHA Cleaner+**

Version 2.1

Print Date 01.08.2023

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : TWEHA Cleaner+  
Substance name : propan-2-ol  
Index-No. : 603-117-00-0  
CAS-No. : 67-63-0  
EC-No. : 200-661-7  
EU REACH-Reg. No. : 01-2119457558-25-xxxx

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

Use of the Substance/Mixture : Identified use: See table in front of appendix for a complete overview of identified uses.  
Uses advised against : At this moment we have not identified any uses advised against  
Remarks : Before referring to any Exposure Scenario attached to this Safety Data Sheet please check the grade of the product: the Exposure Scenarios presented are not related to all product grade

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

Company : TWEHA CCS B.V.  
Lepelstraat 1, bus 02.01  
BE 3920 Lommel  
Telephone : +31 (0)88 999 81 81  
E-mail address : info@tweha.com  
Responsible/issuing person : Master Data Administration  
: Master Data Administration

**1.4. Emergency telephone number**

Emergency telephone : Belgium: Antipoison Center - Brussels TEL: +32(0)70 245 245

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number

Netherland: National Poisoning Information Center - Bilthoven  
 TEL: +31(0) 88 755 8000 (Only for the purpose of informing  
 medical personnel in cases of acute intoxications)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2	---	H225
Eye irritation	Category 2	---	H319
Specific target organ toxicity - single exposure	Category 3	Central nervous system	H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

##### Most important adverse effects

Human Health : See section 11 for toxicological information.  
 Physical and chemical hazards : See section 9/10 for physicochemical information.  
 Potential environmental effects : See section 12 for environmental information.

#### 2.2. Label elements

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

Hazard symbols :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.

Precautionary statements

Prevention : P210 Keep away from heat, hot surfaces, sparks,

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		open flames and other ignition sources. No smoking.
	P261	Avoid breathing vapours/spray.
	P280	Wear protective gloves/ eye protection/ face protection.
Response	: P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P304 + P340 + P312	IF INHALED: Remove person to fresh air
		a POISON CENTER/doctor if you feel unwell.
Storage	: P403 + P235	Store in a well-ventilated place. Keep cool.

### Hazardous components which must be listed on the label:

- propan-2-ol

### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: No information available about endocrine disruption properties for environment.

Toxicological information: No information available about endocrine disruption properties for human health.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
<b>propan-2-ol</b>			
Index-No. : 603-117-00-0	>= 90 - <= 100	Flam. Liq.2 Eye Irrit.2	H225 H319
CAS-No. : 67-63-0			
EC-No. : 200-661-7			
EU REACH-Reg. No. : 01-2119457558-25-xxxx			

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For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General advice	: Remove from exposure, lie down. Take off all contaminated clothing immediately.
If inhaled	: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position. Consult a physician after significant exposure.
In case of skin contact	: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a physician immediately.

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

Symptoms	: Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: High volume water jet

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

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- Specific hazards during firefighting : The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Flash back possible over considerable distance.
- Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
- Further advice : Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental release measures

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

- Personal precautions : Keep away from heat and sources of ignition. Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

### 6.2. Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

### 6.3. Methods and materials for containment and cleaning up

- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4. Reference to other sections

- See Section 1 for emergency contact information.
- See Section 13 for waste treatment information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.
- Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking,

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eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

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

Requirements for storage areas and containers	: Store in original container. Keep in an area equipped with solvent resistant flooring. Unsuitable materials for containers: Aluminium; polystyrene; ethylene propylene diene rubber; butyl-rubber; natural rubber; cast iron
Advice on protection against fire and explosion	: Keep away from sources of ignition - No smoking. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take measures to prevent the build up of electrostatic charge. Use only in an area containing explosion proof equipment.
Further information on storage conditions	: Keep tightly closed in a dry and cool place. Keep away from direct sunlight. Keep in a well-ventilated place.
Advice on common storage	: Incompatible with oxidizing agents. Do not store together with oxidizing and self-igniting products. Keep away from food, drink and animal feedingstuffs.
Suitable packaging materials	: Stainless steel

### 7.3. Specific end use(s)

Specific use(s)	: Identified use: See table in front of appendix for a complete overview of identified uses.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Contains no substances with occupational exposure limit values.

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
<b>Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)</b>		

DNEL	Workers, Long-term - systemic effects, Skin contact	: 888 mg/kg bw/day
DNEL	Workers, Long-term - systemic effects, Inhalation	: 500 mg/m <sup>3</sup>
DNEL	Consumers, Long-term - systemic effects, Skin contact	: 319 mg/kg bw/day
DNEL		

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Consumers, Long-term - systemic effects, Inhalation	:	89 mg/m <sup>3</sup>
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	26 mg/kg bw/day

### Predicted No Effect Concentration (PNEC)

Fresh water	:	140,9 mg/l
Marine water	:	140,9 mg/l
Intermittent releases	:	140,9 mg/l
Sewage treatment plant (STP)	:	2251 mg/l
Sediment	:	552 mg/kg d.w.
Soil	:	28 mg/kg
Secondary poisoning	:	160 mg/kg food

### Other Occupational Exposure Limit Values

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Time Weighted Average (TWA):  
200 ppm, 500 mg/m<sup>3</sup>

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Short Term Exposure Limit (STEL):  
400 ppm, 1.000 mg/m<sup>3</sup>, (15 minutes)

## 8.2. Exposure controls

### Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

### Personal protective equipment

#### *Respiratory protection*

Advice : In case of insufficient ventilation, wear suitable respiratory equipment.  
When aerosol or mist is formed use suitable respiratory protection.  
Respiratory protection complying with EN 141.  
Recommended Filter type:A  
Combination filter: A-P2  
  
breathing apparatus.

#### *Hand protection*

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Advice : Protective gloves complying with EN 374.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.  
Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Protective gloves should be replaced at first signs of wear.

Material : Nitrile rubber  
Break through time :  $\geq 8$  h  
Glove thickness : 0,35 mm

Material : Fluorinated rubber  
Break through time :  $\geq 8$  h  
Glove thickness : 0,4 mm

Material : butyl-rubber  
Break through time :  $\geq 8$  h  
Glove thickness : 0,5 mm

### *Eye protection*

Advice : Safety goggles

### *Skin and body protection*

Advice : Solvent resistant protective clothing

### **Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form : liquid  
Physical state : liquid  
Colour : colourless, clear  
Odour : alcohol-like  
Odour Threshold : No data available  
Melting point/range :  $-89$  °C  
Boiling point/boiling range :  $82$  °C



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Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	13 %(V)
Lower explosion limit / Lower flammability limit	:	2 %(V)
Flash point	:	12 °C Method: ASTM D 56
Auto-ignition temperature	:	> 350 °C
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	No data available
Viscosity		
Viscosity, dynamic	:	2,5 mPa.s (20 °C)
Viscosity, kinematic	:	2,66 mm <sup>2</sup> /s (25 °C) Method: ASTM D 7042
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: 0,05
Dispersion Stability	:	No data available
Vapour pressure	:	43 hPa (20 °C)
Relative density	:	0,786 (20 °C)
Density	:	No data available
Bulk density	:	No data available
Relative vapour density	:	> 1 (Air = 1.0)
Particle characteristics		

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No data available

### 9.2 Other information

Explosives	:	Product is not explosive. Formation of explosive air/vapour mixtures is possible.
Oxidizing properties	:	not oxidising
Evaporation rate	:	3,9 (Butyl Acetate = 1)
Molecular weight	:	60,10 g/mol

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

### 10.2. Chemical stability

Advice : Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions : Possible formation of peroxide.  
Note : Formation of explosive air/vapour mixtures is possible.

### 10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5. Incompatible materials

Materials to avoid : Strong oxidizing agents, Amines, Aldehydes, alkanolamines, alkalis, Strong acids

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Under fire conditions: Carbon oxides

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
<b>Acute toxicity</b>		
<b>Oral</b>		

LD50 : 5840 mg/kg (Rat) (OECD Test Guideline 401)

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### Inhalation

LC50 : > 25 mg/l (Rat; 6 h; vapour) (OECD Test Guideline 403)

### Dermal

LD50 : 13900 mg/kg (Rabbit) (OECD Test Guideline 402)

### Irritation

#### Skin

Result : No skin irritation (OECD Test Guideline 404) Degreases the skin which may cause dry and rough. Prolonged or repeated skin contact may result in dermatitis.

#### Eyes

Result : Eye irritation (OECD Test Guideline 405) Splashes in eyes may cause strong pain. Vapour acts irritant.

### Sensitisation

Result : not sensitizing (Buehler Test; Dermal; Guinea pig) (OECD Test Guideline 406)

### CMR effects

#### Carcinogenicity

NOEL : 5.000 ppm  
(negative, Mouse, male and female)(Inhalation; 0, 500, 2500, 5000 ppm; 78 weeks; Frequency of treatment: 5 days/week)(OECD Test Guideline 451)

#### CMR Properties

Carcinogenicity : Based on available data, the classification criteria are not met.  
Mutagenicity : In vitro tests did not show mutagenic effects  
In vivo tests did not show mutagenic effects  
Teratogenicity : No effects on or via lactation  
Reproductive toxicity : Based on available data, the classification criteria are not met.

#### Genotoxicity in vitro

Result : negative (Bacterial Reverse Mutation Test; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471)

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negative (In vitro gene mutation study in mammalian cells; CHO (Chinese Hamster Ovary) cells; with and without metabolic activation) (OECD Test Guideline 476)

### Genotoxicity in vivo

Result : negative (In vivo micronucleus test; Mouse, male and female) (intraperitoneal; ) (OECD Test Guideline 474)

### Teratogenicity

NOAEL : 400 mg/kg bw/day  
 Maternal  
 NOAEL : 400 mg/kg bw/day  
 Develop.  
 (Rat, Sprague-Dawley)(Oral)(OECD Test Guideline 414)No adverse effects

### Reproductive toxicity

NOAEL : 853 mg/kg bw/day  
 Parent  
 (One-Generation Reproduction Toxicity Study; Rat, wistar, male and female)(Oral)(OECD Test Guideline 415)No negative effects.  
 NOAEL : 500 mg/kg bw/day  
 Parent  
 (Two-generation reproductive toxicity; Rat, Sprague-Dawley, male and female)(Oral)(OECD Test Guideline 416)No negative effects.

### Specific Target Organ Toxicity

#### Single exposure

Inhalation : Target Organs: Central nervous systemMay cause drowsiness or dizziness.

#### Repeated exposure

Remarks : Oral and inhalation repeated exposure studies demonstrated target organ effects in male rats (kidney) and male and female mice (thyroid) by mechanisms of action that are not relevant to humans

### Other toxic properties

#### Aspiration hazard

Aspiration hazard if swallowed - can enter lungs and cause damage.

Based on available data, the classification criteria are not met.,

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### 11.2. Information on other hazards

#### Data for the product

##### Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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#### Acute toxicity

##### Fish

LC50 : 9.640 mg/l (Pimephales promelas; 96 h) (flow-through test; OECD Test Guideline 203)

##### Toxicity to daphnia and other aquatic invertebrates

LC50 : 9.714 mg/l (Daphnia magna; 24 h) (static test; OECD Test Guideline 202)

##### algae

EC50 : > 100 mg/l (Scenedesmus subspicatus; 72 h)  
 LOEC : 1000 mg/l (algae; 8 d)

##### Bacteria

EC50 : > 100 mg/l (Bacteria) no harming action

### 12.2. Persistence and degradability

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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#### Persistence and degradability

##### Persistence

Result : Transformation due to hydrolysis not expected to be significant.  
 Transformation due to photolysis not expected to be significant.

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### Biodegradability

Result : 53 % (aerobic; domestic sewage; Related to: O2 consumption; Exposure Time: 5 d)(Directive 67/548/EEC, Annex V, C.5) Readily biodegradable.

### 12.3. Bioaccumulative potential

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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### Bioaccumulation

Result : log Kow 0,05  
: Bioaccumulation is not expected.

### 12.4. Mobility in soil

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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### Mobility

Water : The product is water soluble.  
Soil : Mobile in soils

### 12.5. Results of PBT and vPvB assessment

#### Data for the product

#### Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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#### Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 12.6. Endocrine disrupting properties

#### Data for the product

Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

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### 12.7. Other adverse effects

#### Data for the product

#### Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

## SECTION 14: Transport information

### 14.1. UN number

1219

### 14.2. UN proper shipping name

ADR : ISOPROPANOL  
RID : ISOPROPANOL  
IMDG : ISOPROPANOL

### 14.3. Transport hazard class(es)

ADR-Class : 3  
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code) 3; F1; 33; (D/E)

RID-Class : 3  
(Labels; Classification Code; Hazard Identification Number) 3; F1; 33

IMDG-Class : 3  
(Labels; EmS) 3; F-E, S-D

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### 14.4. Packaging group

ADR : II  
 RID : II  
 IMDG : II

### 14.5. Environmental hazards

Environmentally hazardous according to ADR : no  
 Environmentally hazardous according to RID : no  
 Marine Pollutant according to IMDG-Code : no

### 14.6. Special precautions for user

Not applicable.

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Component:	propan-2-ol	CAS-No. 67-63-0
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EU. Chemicals Subject : ; The substance/mixture does not fall under this legislation.  
 to PIC Procedure:  
 Regulation 649/2012/EU  
 on export and import of  
 dangerous chemicals, as  
 amended

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed  
 Marketing and Use  
 Restrictions (Regulation  
 1907/2006/EC)  
 Point Nos.: , 40; Listed

EU. Regulation No : EC Number: , 200-661-7; Listed  
 1451/2007 [Biocides],  
 Annex I, OJ (L 325)

EU. Directive : Qualifying quantity for the application of Lower-tier  
 2012/18/EU (SEVESO) requirements: 5.000 tonnes; Part 1: Categories of dangerous



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III) on major accident hazards involving dangerous substances, Annex I

substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

Qualifying quantity for the application of Upper-tier requirements: 50.000 tonnes; Part 1: Categories of dangerous substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

Qualifying quantity for the application of Lower-tier requirements: 100 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

### Notification status

#### propan-2-ol:

Regulatory List	Notification	Notification number
INSQ	YES	
ONT INV	YES	
PHARM (JP)	YES	
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	2905.12
TH INV	YES	55-1-05311
TSCA	YES	
VN INVL	YES	

### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### II

#### Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

#### Full text of the Notes referred to under section 3.

#### Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
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<b>BCF</b>	bioconcentration factor
<b>BOD</b>	biochemical oxygen demand
<b>CAS</b>	Chemical Abstracts Service
<b>CLP</b>	Classification, Labelling and Packaging
<b>CMR</b>	carcinogenic, mutagenic or toxic to reproduction
<b>COD</b>	chemical oxygen demand
<b>DNEL</b>	derived no-effect level
<b>DSL</b>	Canada. Environmental Protection Act, Domestic Substances List
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>ELINCS</b>	European List of Notified Chemical Substances
<b>ENCS (JP)</b>	Japan. Kashin-Hou Law List
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>IECSC</b>	China. Inventory of Existing Chemical Substances
<b>INSQ</b>	Mexico. National Inventory of Chemical Substances
<b>ISHL (JP)</b>	Japan. Inventory of Industrial Safety & Health
<b>KECI (KR)</b>	Korea. Existing Chemicals Inventory
<b>LC50</b>	median lethal concentration
<b>LOAEC</b>	lowest observed adverse effect concentration
<b>LOAEL</b>	lowest observed adverse effect level
<b>LOEL</b>	lowest observed effect level
<b>NDSL</b>	Canada. Environmental Protection Act. Non-Domestic Substances List
<b>NLP</b>	no-longer polymer
<b>NOAEC</b>	no observed adverse effect concentration
<b>NOAEL</b>	no observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>NZIOC</b>	New Zealand. Inventory of Chemicals
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	occupational exposure limit
<b>ONT INV</b>	Canada. Ontario Inventory List
<b>PBT</b>	persistent, bioaccumulative and toxic
<b>PHARM (JP)</b>	Japan. Pharmacopoeia Listing
<b>PICCS (PH)</b>	Philippines. Inventory of Chemicals and Chemical Substances
<b>PNEC</b>	predicted no-effect concentration
<b>REACH Auth. No.:</b>	REACH Authorisation Number
<b>REACH AuthAppC. No.</b>	REACH Authorisation Application Consultation Number
<b>STOT</b>	specific target organ toxicity
<b>SVHC</b>	substance of very high concern
<b>TCSI</b>	Taiwan. Existing Chemicals Inventory

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<b>TH INV</b>	Thailand. Existing Chemicals Inventory from FDA
<b>TSCA</b>	US. Toxic Substances Control Act
<b>UVCB</b>	substance of unknown or variable composition, complex reaction products or biological materials
<b>VN INVL</b>	Vietnam. National Chemical Inventory
<b>vPvB</b>	very persistent and very bioaccumulative

### Further information

Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.  
The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.