

## 100% Isopropanol

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

#### 1.1 - Product identifier

Trade name/designation 100% Isopropanol  
Chemical name  
Product-type Mixture  
Product code 443.100  
UFI: R710-80EV-V00C-34E4

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

Relevant identified uses

- Consumer uses: Private households (= general public = consumers)
- PC35: Washing and cleaning products (including solvent based products).

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

ECS Cleaning Solutions GmbH Wolfener Str. 32-34 D-12681 Berlin Germany Telephone : +49 (0)30 / 36 46 40 36 gunnar.kleinmann@ecsag.com	ECS AG Roosstrasse 53 CH-8832 Wollerau gunnar.kleinmann@ecsag.com +41 (0)44 / 787 53 56
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#### Distributor

ECS AG  
Roosstrasse 53  
CH-8832 Wollerau  
gunnar.kleinmann@ecsag.com  
+41 (0)44 / 787 53 56

#### 1.4 - Emergency telephone number

Giftnotrufzentrale (Österreich)  
Tel. No.: +43 1 406 4343

Centar za kontrolu trovanja (Hrvatska)  
Tel. No.: +385 1 234 8342

Hotline voor gifbestrijding (Denemarken)  
Tel. No.: +45 82 12 12 12

Mürgistusteabekeskus (Eesti)  
Tel. No.: +372 794 3794 (või 16662 riiklikku)

ORFILA (INERIS) (France)  
Tel. No.: +33 (0) 1 45 42 59 59

Vergiftungs-Informations-Zentrale (Deutschland)  
Notfalltelefon: +49 761 19240

Eitrunarmiöstöð (Ísland)  
Tel. No.: +354 543 2222

CAV Milano Niguarda Ca' Granda (Italy)  
Tel. No.: +39 02 66101029  
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA  
Tel. No.: +39 06 68593726

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Ionad Faisnéise Náisiúnta Nimheanna (Éire)  
Tel. No.: +353 (0)1 809 2566 / +353 (0)1 837 9964

Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs (Latvia)  
Tel. No.: +371 670 42473

Valstybinė vaistų kontrolės tarnyba (VVKT), Apsinuodijimų informacijos biuras (VTI) (Lietuva)  
Tel. No.: +370 5 236 20 52

Isptar Mater Dei (Malta)  
Tel. No.: +356 2545 0000

Nationaal Vergiftigingen Informatie Centrum (NVIC) (Nederland)  
Tel. No.: +31 (0) 30 274 8888

Hjelpetelefon for psykisk helse (Norge)  
Tel. No.: +47 22 59 13 00

Instituto Nacional de Emergência Médica (Portugal)  
Tel. No.: +351 213 303 271

Servicio de Información Toxicológica (España)  
Tel. No.: +34 91 562 04 20

Svensk Giftinformationscentral (Sverige)  
Tel. No.: +46 08 331231

Schweizerisches Toxikologisches Informationszentrum (Schweiz)/ Centro svizzero di informazione tossicologica (Svizzera)/ Centre Suisse d'Information Toxicologique (Suisse)  
Tel. No.: +41 44 251 51 51  
Tox Info Suisse Notrufnummer: 145 (24 Stunden)/ Numero di emergenza Tox Info Suisse: 145 (24 ore)/ Tox Info Suisse Numéro d'urgence: 145 (24h/24)

### SECTION 2: Hazards identification

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

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

Flam. Liq. 1	Flammable liquid and vapour. - Category 1
Eye Irrit. 2	Eye irritation - Category 2
STOT SE 3 (H336)	STOT-single exposure - Category 3 (H336)

#### 2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: propan-2-ol, isopropyl alcohol, isopropanol (CAS No.: 67-63-0)

Signal word : Danger

Hazard pictograms



Hazard statements

H224	Extremely flammable liquid and vapour
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H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

### Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing fume/vapours/spray.
P264	Wash face/hands thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a a POISON CENTER/a doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use Carbon dioxide (CO <sub>2</sub> )/carbon oxides (CO, CO <sub>2</sub> )/alcohol-resistant foam for extinction.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an appropriate recycling or disposal facility in accordance with local/regional/national/international regulation.

EUH-phrases : None

### Regulation (EC) No. 648/2004 (Detergents regulation)

#### 2.3 - Other hazards

PBT-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

vPvB-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## SECTION 3: Composition / information on ingredients

### 3.1 - Substances

Not applicable

### 3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
propan-2-ol, isopropyl alcohol, isopropanol	CAS No. : 67-63-0 Index No. : 603-117-00-0 EC No. : 200-661-7	100	Eye Irrit. 2 - H319 Flam. Liq. 2 - H225 STOT SE 3 (H336) - H336	Not applicable

## SECTION 4: First aid measures

### 4.1 - Description of first aid measures

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<u>Following inhalation</u>	<ul style="list-style-type: none"><li>- Provide fresh air.</li><li>- If breathing is irregular or stopped, administer artificial respiration.</li><li>- If unconscious but breathing normally, place in recovery position and seek medical advice.</li><li>- When in doubt or if symptoms are observed, get medical advice.</li></ul>
<u>Following skin contact</u>	<ul style="list-style-type: none"><li>- Wash immediately with: Water</li><li>- When in doubt or if symptoms are observed, get medical advice.</li></ul>
<u>After eye contact</u>	<ul style="list-style-type: none"><li>- Rinse immediately carefully and thoroughly with eye-bath or water.</li><li>- In case of eye irritation consult an ophthalmologist.</li></ul>
<u>After ingestion</u>	<ul style="list-style-type: none"><li>- Rinse mouth thoroughly with water.</li><li>- Do NOT induce vomiting.</li><li>- When in doubt or if symptoms are observed, get medical advice.</li></ul>

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

<u>Symptoms and effects - Following inhalation</u>	- May cause drowsiness or dizziness.
<u>Symptoms and effects - Following skin contact</u>	- No information available.
<u>Symptoms and effects - After eye contact</u>	- Causes eye irritation.
<u>Symptoms and effects - After ingestion</u>	- No information available.

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

- Treat symptomatically.
- In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

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## SECTION 5: Firefighting measures

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### 5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	<ul style="list-style-type: none"><li>- ABC-powder</li><li>- Carbon dioxide (CO<sub>2</sub>)</li><li>- Foam</li><li>- Extinguishing powder</li></ul>
<u>Unsuitable extinguishing media</u>	- Full water jet

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

<u>Special hazards arising from the substance or mixture</u>	<ul style="list-style-type: none"><li>- Flammable liquid and vapour.</li><li>- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li></ul>
<u>Hazardous decomposition products</u>	- No information available.

### 5.3 - Advice for firefighters

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- Wear a self-contained breathing apparatus and chemical protective clothing.
- Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

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

##### For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.
- Remove all sources of ignition.

##### For emergency responders

- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.2 - Environmental precautions

- Do not allow uncontrolled discharge of product into the environment.

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

##### Methods and material for containment

- No information available.

##### Methods and material for cleaning up

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

##### Inappropriate techniques

- No information available.

#### 6.4 - Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

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### SECTION 7: Handling and storage

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#### 7.1 - Precautions for safe handling

##### Recommendation

- Avoid: Eye contact
- It is recommended to design all work processes always so that the following is excluded: Eye contact
- Vapours can form explosive mixtures with air.
- When using do not smoke.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Use only in well-ventilated areas.
- All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists
- Do not spray on naked flames or any incandescent material.

##### Advices on general occupational hygiene

- Wash hands and face before breaks and after work and take a shower if necessary.
- When using do not eat, drink, smoke, sniff.
- Work in well-ventilated zones or use proper respiratory protection.

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

- Storage class Flammable liquids
- Keep container tightly closed and in a well-ventilated place.
- Do not store together with: Combustible substance
- Protect against: Heat

### 7.3 - Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 - Control parameters

#### propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

VLE mg/m3 (CH)	1000 mg/m3
VLE ppm (CH)	400 ppm
VME mg/m3 (CH)	500 mg/m3
VME ppm (CH)	200 ppm

### DNEL / PNEC

#### propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

Type	Value	User	Effect
DNEL long-term oral (repeated)	26 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	500 mg/m3	Workers	Systemic
DNEL long-term inhalative	89 mg/m3	Consumers	Systemic
DNEL long-term dermal	888 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	319 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	140.9 mg/l		
PNEC aquatic, marine water	140.9 mg/l		
PNEC aquatic, intermittent release	140.9 mg/l		
PNEC sediment, freshwater	552 mg/kg		
PNEC sediment, marine water	552 mg/kg		
PNEC Secondary Poisoning	160 mg/kg		
PNEC sewage treatment plant (STP)	2251 mg/l		

### 8.2 - Exposure controls

#### Appropriate engineering controls

- No information available.
- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

- Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### Individual protection measures, such as personal protective equipment

- Suitable protective clothing: lab coat



- Eye glasses with side protection
- DIN EN 166

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- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

- Wear anti-static footwear and clothing  
- Tested protective gloves must be worn



- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

- Breakthrough time: > 480 min.  
- EN ISO 374  
- Suitable material: NBR (Nitrile rubber)

### SECTION 9: Physical and chemical properties

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

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	colourless	<u>Odour</u>	characteristic
Odour threshold		No data available	
pH		No data available	
Melting point		-89 °C	
Freezing point		-89 °C	
Boiling point		< 90 °C	
Flash point		12 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		2 % Vol.	
Upper explosion limit		12 % Vol.	
Vapour pressure		6.02 kPa	
Vapour density		No data available	
Relative density		0.8	
Density		0.7855 g/cm <sup>3</sup>	
Solubility (Water)		No data available	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		0.05	
Auto-ignition temperature		455.6 °C	

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Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	2.1 mPa.s

### Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

### 9.2 - Other information

VOC content	100 %
Minimum ignition energy	No data available
Conductivity	No data available
VOC Composite Partial Pressure (Calculated @ 20oC/68oF)	No data available
C.A.R.B. V.O.C.	No data available
% Photo Chemically Reactive	No data available

## SECTION 10: Stability and reactivity

### 10.1 - Reactivity

- Flammable liquids

### 10.2 - Chemical stability

- In use may form flammable/explosive vapour-air mixture.

### 10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

### 10.4 - Conditions to avoid

- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

- In case of warming: Ignition hazard

- Keep cool. Protect from sunlight.

### 10.5 - Incompatible materials

- No information available.

### 10.6 - Hazardous decomposition products

- No information available.

## SECTION 11: Toxicological information

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

Acute toxicity - Not classified

### Toxicity : Mixture

LD50 oral (rat)	No data available
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LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

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

### Toxicity : Substances

#### propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

LD50 oral (rat)	5840 mg/kg
LD50 dermal (rabbit)	13900 mg/kg
LC50 inhalation vapours (rat)	5000 mg/l

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Eye irritation - Category 2 - Causes serious eye irritation

- Irritating to eyes.

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - STOT-single exposure - Category 3 (H336) - May cause drowsiness or dizziness

- May cause drowsiness or dizziness.

STOT-repeated exposure - Not classified

Aspiration hazard - Not classified

### 11.2 - Information on other hazards

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 12: Ecological information

### 12.1 - Toxicity

#### Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

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### Toxicity : Substances

#### propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

EC50 48 hr crustacea	1000 mg/l
LC50 96 hr fish	9640 mg/l
ErC50 algae	> 100 mg/l
NOEC chronic algae	1800 mg/l

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

### 12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

### 12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	0.05

- No indication of bioaccumulation potential.

### 12.4 - Mobility in soil

- No information available.

### 12.5 - Results of PBT and vPvB assessment

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6 - Endocrine disrupting properties

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7 - Other adverse effects

- No information available.

## **SECTION 13: Disposal considerations**

### 13.1 - Waste treatment methods

#### Waste treatment methods

- Dispose of waste according to applicable legislation.
- Completely emptied packages can be recycled.
- Dispose of empty or partially emptied packaging/container/can/.? after appropriate use of the product to municipal waste.
- This material and its container must be disposed of as hazardous waste.

#### Sewage disposal

- No information available.

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Special precautions for waste treatment - Do not allow to enter into surface water or drains.

Community or national or regional provisions - No information available.

### SECTION 14: Transport information

#### 14.1 - UN number or ID number

UN number (ADR) : UN1219  
UN number (RID) : UN1219  
UN number (ADN) : UN1219  
UN number (IMDG) : UN1219  
UN number (IATA) : UN1219

#### 14.2 - UN proper shipping name

UN proper shipping name (ADR) : ISOPROPANOL (ISOPROPYL ALCOHOL)  
UN proper shipping name (RID) : ISOPROPANOL (ISOPROPYL ALCOHOL)  
UN proper shipping name (ADN) : ISOPROPANOL (ISOPROPYL ALCOHOL)  
UN proper shipping name (IMDG) : ISOPROPANOL (ISOPROPYL ALCOHOL)  
UN proper shipping name (IATA) : ISOPROPYL ALCOHOL

#### 14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 3  
ADR Classification code: : F1  
Pictograms



Transport hazard class(es) (RID) : 3  
Pictograms



Transport hazard class(es) (ADN) : 3  
Pictograms



Transport hazard class(es) (IMDG) : 3

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### Pictograms



Transport hazard class(es) : 3  
(IATA)

### Pictograms



### 14.4 - Packing group

Packing group : II  
Packing group (RID) : II  
Packing group (ADN) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II

### 14.5 - Environmental hazards

Environmental hazards : No  
Marine pollutant : No

### 14.6 - Special precautions for user

#### **ADR**

ADR Classification code: : F1  
ADR Special provisions : 601  
ADR Limited quantity (LQ) : 1L  
ADR Excepted quantities : E2  
ADR Packing instructions : P001 IBC02 R001  
ADR Special packing provisions :  
ADR Mixed packing provisions : MP19  
Instructions for portable tanks and bulk containers : T4  
Special provisions for portable tanks and bulk containers : TP1  
ADR tank code : LGBF  
ADR tanks special provisions :  
Vehicle for tank carriage : FL  
ADR Transport category : 2  
ADR Tunnel restriction code : D/E  
ADR Special provisions loading, unloading and handling :  
Special provisions - Packages :  
Special provisions - Bulk :  
Special provisions - Operation : S2 S20  
ADR Hazard identification number (Kemler No.) : 33

#### **RID**

Special provisions : 601  
Limited quantity (LQ) : 1L

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<u>Excepted quantities</u>	:	E2
<b>ADN</b>		
<u>Special provisions</u>	:	601
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	E2
<b>IMDG</b>		
<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	1 L
<u>Excepted quantities</u>	:	E2
<u>Packing instructions</u>	:	P001
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	IBC02
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	T4
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1
<u>EmS codes</u>	:	F-E, S-D
<u>Stowage and handling</u>	:	Category B
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12% Miscible with water.

<b>IATA</b>		
<u>PCA - Excepted quantities</u>	:	E2
<u>PCA - Limited Quantity - Packing Instructions</u>	:	Y341
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:	1L
<u>PCA - Packing Instructions</u>	:	353
<u>PCA - Maximum Net Quantity per Package</u>	:	5L
<u>CAO - Packing Instructions</u>	:	364
<u>CAO - Maximum Net Quantity per Package</u>	:	30L
<u>Special Provisions</u>	:	A180
<u>ERG Code</u>	:	

14.7 - Maritime transport in bulk according to IMO instruments

### SECTION 15: Regulatory information

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

<u>Substances REACH candidates</u>	None
<u>Substances Annex XIV</u>	None
<u>Substances Annex XVII</u>	None
<u>VOC content</u>	100 %

- Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)  
- – COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);

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- – Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);
- – The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).
- Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
- Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Swiss Regulations: Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Regulation (EC) No. 648/2004 (Detergents regulation)

### 15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

## SECTION 16: Other information

### SDS versions

Version	Issue date	Author	Description of the amendments
1	25/05/2023		

### Abbreviations and acronyms

- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS – Chemical Abstracts Service number.
- EC50 – Effective concentration to 50% of a test population (half maximal effective concentration).
- IC50 – Inhibitory concentration to 50% of a test population (half maximal inhibitory concentration).
- IMDG – International Maritime Dangerous Goods.
- IMO – International Maritime Organization.
- LC50 – Lethal Concentration to 50 % of a test population.
- LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).
- MSDS – Material Safety Data Sheet.
- NIOSH – National Institute of Occupational Safety and Health.
- NOEC – No effect concentration.
- PBT – Persistent, Bioaccumulative and Toxic substance.
- PNEC(s) – Predicted No Effect Concentration(s).
- RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.
- STOT – Specific Target Organ Toxicity.
- vPvB – Very Persistent and Very Bioaccumulative.

### Data sources:

European Chemicals Agency (ECHA)  
European Chemicals Bureau (ECB)  
International Laboratories Organization (ILO)

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### Texts of the regulatory sentences

Eye Irrit. 2	Eye irritation - Category 2
Eye Irrit. 2A	Eye irritation - Category 2A
Flam. Liq. 1	Flammable liquid and vapour. - Category 1
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
H224	Extremely flammable liquid and vapour
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
STOT SE 3 (H336)	STOT-single exposure - Category 3 (H336)

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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