
100% ISOPROPYL ALCOHOL

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

1.1 - Product identifier

Trade name/designation 100% ISOPROPYL ALCOHOL
Chemical name
Product-type Mixture
UFI: R710-80EV-V00C-34E4

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

Relevant identified uses - 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

1.4 - Emergency telephone number

Poison Control Centre (Austria)
Tel. No.: +43 1 406 4343

Antigif Centrum Centre Antipoisons (Belgium)
Tel. No.: +32 070 245 245

National Toxicology Centre, Hospital for Active Medical Treatment and Emergency Medicine "N.I.Pirogov"
(Bulgaria)
Tel. No. / fax.: +359 2 9154 233

Poison Control Centre (Croatia)
Tel. No.: +385 1 234 8342

Toxicological Information Centre (Czech Republic)
Tel. No.: +420 224 919 293 / +420 224 915 402

Poison Control Hotline (Denmark)
Tel. No.: +45 82 12 12 12

Poisoning Information Centre (Estonia)
Tel. No.: +372 794 3794 (or 16662 national)

Poison Information Centre (Finland)
Tel. No.: +358 09 471 977

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

Health Toxicological Information Service (Hungary)
Tel. No.: +36 80 20 11 99

Poison Centre (Iceland)
Tel. No.: +354 543 2222

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National Poisons Information Centre (Ireland)
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

Health Emergency Situations Centre of the Ministry of Health, Poison Information Bureau (Lithuania)
Tel. No.: +370 5 236 20 52, mob.: +370 687 53378

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

National Poisons Information Centre (NVIC) (Netherlands)
Tel. No.: +31 (0) 30 274 8888

Mental Health Helpline (Norway)
Tel. No.: +47 22 59 13 00

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

Biroul RSI si Informare Toxicologica (Romania)
Tel. No.: +40 021 318 3606

National Toxicological Information Centre (NTIC) (Slovakia)
Tel. No.: +421 2 5477 4166

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

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

Flam. Liq. 2	Flammable liquid and vapour. - Category 2
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

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

Precautionary statements

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof [electrical/ventilating/lighting]equipment.
P280	Wear protective gloves/protective clothing/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.

EUH-phrases : None

2.3 - Other hazards

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

<u>Following inhalation</u>	<ul style="list-style-type: none">- No special measures are necessary.- Provide fresh air.
<u>Following skin contact</u>	<ul style="list-style-type: none">- Wash immediately with: Water- When in doubt or if symptoms are observed, get medical advice.
<u>After eye contact</u>	<ul style="list-style-type: none">- Rinse immediately carefully and thoroughly with eye-bath or water.- In case of eye irritation consult an ophthalmologist.
<u>After ingestion</u>	<ul style="list-style-type: none">- Rinse mouth thoroughly with water.- Do NOT induce vomiting.

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

<u>Symptoms and effects - Following inhalation</u>	- No information available.
<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

SECTION 5: Firefighting measures

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5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media

- Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- No information available.

Hazardous decomposition products

- No information available.

5.3 - Advice for firefighters

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

SECTION 6: Accidental release measures

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

- No information available.

6.2 - Environmental precautions

- No information available.

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

- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

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
- It is recommended to design all work processes always so that the following is excluded: Generation/formation of dust

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- It is recommended to design all work processes always so that the following is excluded: generation/formation of aerosols
- 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.

Advices on general occupational hygiene

- No information available.

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)

IOELV TWA mg/m3 (UE)	1250 mg/m3
IOELV TWA ppm (UE)	400 ppm
IOELV STEL mg/m3 (UE)	999 mg/m3
IOELV STEL ppm (UE)	400 ppm

DNEL / PNEC

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Type	Value	User	Effect
DNEL long-term oral (repeated)	26 mg/kg bw/day		
DNEL long-term inhalative	500 mg/m3		
DNEL long-term inhalative	89 mg/m3		
DNEL long-term dermal	888 mg/kg bw/day		
DNEL long-term dermal	319 mg/kg bw/day		
PNEC aquatic, freshwater	140.9 mg/l		
PNEC aquatic, marine water	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		

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		

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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.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection

- Suitable eye protection: Dust protection eye glasses

- Suitable protective clothing: lab coat



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>		<u>Odour</u>	characteristic
Odour threshold		No data available	
pH		No data available	
Melting point		-89.5 °C	
Freezing point		No data available	
Boiling point		> 35 °C	
Flash point		< 23 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		No data available	
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		No data available	

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Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

Particle characteristics

Particle size	No data available
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9.2 - Other information

VOC content	785 g/l
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

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

10.4 - Conditions to avoid

- In case of warming: Ignition hazard

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)	5840 mg/kg
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	13900 mg/kg
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	25 mg/l

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

Toxicity : Substances

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

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LD50 oral (rat)	5840 mg/kg
LD50 dermal (rabbit)	13900 mg/kg

<u>Skin corrosion/irritation</u>	- Not classified
<u>Serious eye damage/eye irritation</u>	- Eye irritation - Category 2 - Causes serious eye irritation - Irritating to eyes.
<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- STOT-single exposure - Category 3 (H336) - May cause drowsiness or dizziness
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

11.2 - Information on other hazards

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	9640 mg/l < V < 10000 mg/l
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

Toxicity : Substances

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
EC50 48 hr crustacea	9714 mg/l
LC50 96 hr fish	9640 mg/l
ErC50 algae	> 100 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)	0.5 mg/l
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

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- 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

12.6 - Endocrine disrupting properties

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.

Sewage disposal - No information available.

Special precautions for waste treatment - No information available.

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) (propan-2-ol, isopropyl alcohol, isopropanol)

UN proper shipping name (RID) : ISOPROPANOL (ISOPROPYL ALCOHOL) (propan-2-ol, isopropyl alcohol, isopropanol)

UN proper shipping name (ADN) : ISOPROPANOL (ISOPROPYL ALCOHOL) (propan-2-ol, isopropyl alcohol, isopropanol)

UN proper shipping name (IMDG) : ISOPROPANOL (ISOPROPYL ALCOHOL) (propan-2-ol, isopropyl alcohol, isopropanol)

UN proper shipping name (IATA) : ISOPROPANOL (propan-2-ol, isopropyl alcohol, isopropanol)

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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

Pictograms



Transport hazard class(es) (IATA) : 3

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

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14.6 - Special precautions for user

ADR

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

RID

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

ADN

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

IMDG

<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>	:	

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Properties and observations : Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12% Miscible with water.

IATA

PCA - Excepted quantities : E2
PCA - Limited Quantity - Packing Instructions : Y341
PCA - Limited Quantity - Maximum Net Quantity per Package : 1L
PCA - Packing Instructions : 353
PCA - Maximum Net Quantity per Package : 5L
CAO - Packing Instructions : 364
CAO - Maximum Net Quantity per Package : 60L
Special Provisions : A180
ERG Code : 3L

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 785 g/l

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	10/26/2022		

Texts of the regulatory sentences

Eye Irrit. 2	Eye irritation - Category 2
Eye Irrit. 2A	Eye irritation - Category 2A
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
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)

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