

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

**1.1. Product identifier**

**Product name:** ISOPROPANOL

**Product code:** 704.400.000

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

**Use of substance / mixture:** Cleaning agent / Cleaner

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

**Company name:** ECS AG

Roosstrasse 53

CH-8832 Wollerau

Switzerland

**Tel:** +41 (0)44 / 787 53 56

**Email:** gunnar.kleinmann@ecsag.com

**1.4. Emergency telephone number**

**Emergency tel:** Germany: Vergiftungs-Informations-Zentrale; +49 761 19240

**Section 2: Hazards identification**

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

**Classification under CLP:** Eye Irrit. 2: H319; Flam. Aerosol 1: H222; STOT SE 3: H336; -: H229

**Most important adverse effects:** Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

**Hazard pictograms:** GHS02: Flame

GHS07: Exclamation mark



**Signal words:** Danger

**Precautionary statements:** P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

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sources. No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501: Dispose of to.

### 2.3. Other hazards

**Other hazards:** Buildup of explosive mixtures without sufficient ventilation.

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

##### PROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	90.000%

##### KOHLENDIOXID

204-696-9	124-38-9	Substance with a Community workplace exposure limit.	Press. Gas: H280	10.000%
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**Contains:** Additional information: For the wording of the listed hazard phrases refer to section 16.

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Generally the product does not irritate the skin.

**Eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**Ingestion:** If symptoms persist consult doctor.

**Inhalation:** In case of unconsciousness place patient stably in side position for transportation.

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

**Skin contact:** Based on available data, the classification criteria are not met.

**Eye contact:** Causes serious eye irritation.

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

**Inhalation:** May cause drowsiness or dizziness.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

[cont...]

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

**Immediate / special treatment:** No further relevant information available.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Carbon dioxide. Dry chemical powder. Water spray. Fight Larger fires with water spray or alcohol resistant foam.

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

**Exposure hazards:** No further relevant information available.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Protective equipment: No special measures required. Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

## Section 6: Accidental release measures

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

**Personal precautions:** Wear protective equipment. Keep unprotected persons away.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Refer to section 13 of SDS for suitable method of disposal. Ventilate affected area.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS. Safe handling: see section 7

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material.

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

**Storage conditions:** Observe official regulations on storing packagings with pressurised containers. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Storage class: 2B

### 7.3. Specific end use(s)

**Specific end use(s):** No further relevant information available.

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## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

**PROPAN-2-OL**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m <sup>3</sup>	1250 mg/m <sup>3</sup>	-	-

**KOHLENDIOXID**

EU	9100 mg/m <sup>3</sup>	-	-	-
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### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Short term filter device: type A  
Not necessary if room is well-ventilated.

**Hand protection:** Protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Nitrile gloves. Recommended thickness of the material:  $\geq 0,35$  mm 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Breakthrough time of the glove material > 8 hours.

**Eye protection:** Tightly fitting safety goggles.

## Section 9: Physical and chemical properties

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

**State:** Aerosol

**Colour:** Colourless

**Odour:** Characteristic odour

**Solubility in water:** Fully miscible

**Boiling point/range°C:** Not applicable.

**Melting point/range°C:** -89,5 °C

**Flammability limits %: lower:** 2 Vol %

[cont...]

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**Flash point°C:** 13°C  
**Vapour pressure:** at 20°C: 6700hPa  
**pH:** neutral

**upper:** 12 Vol %  
**Autoflammability°C:** 425°C  
**Relative density:** Not determind.  
**VOC g/l:** 99,90 %

## 9.2. Other information

**Other information:** Product is not selfigniting. Product is not explosive. However, formation of explosive air / vapour mixtures are possible. Density at 20°C: 0,56 g/cm3

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** No further relevant information available.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** No dangerous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid:** No further relevant information available.

### 10.5. Incompatible materials

**Materials to avoid:** No further relevant information available.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** No dangerous decomposition products known.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Hazardous ingredients:

#### PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

#### Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated

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STOT-single exposure	-	Hazardous: calculated
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## Symptoms / routes of exposure

**Skin contact:** Based on available data, the classification criteria are not met.

**Eye contact:** Causes serious eye irritation.

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

**Inhalation:** May cause drowsiness or dizziness.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** No data available.

### 12.2. Persistence and degradability

**Persistence and degradability:** No further relevant information available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No further relevant information available.

### 12.4. Mobility in soil

**Mobility:** No further relevant information available.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** Water hazard class 1 (German regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Waste code number:** 15 01 10

**Disposal of packaging:** 15 01 04 metallic packaging Recommended cleansing agents: Water, if necessary together with cleansing agents.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

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## 14.1. UN number

UN number: UN1950

## 14.2. UN proper shipping name

Shipping name: Aerosols

## 14.3. Transport hazard class(es)

Transport class: 3

## 14.4. Packing group

Packing group: II

## 14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

## 14.6. Special precautions for user

Special precautions: Warning: Flammable liquids.

Danger code (Kemler): 33

EMS Number: F-D,S-U

Stowage Code: SW1, SW22

Segregation Code: SG69

Tunnel code: D/E

Transport category: 2

IMDG seg. group: LQ:1L; EQ E2

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: Not applicable.

## Section 15: Regulatory information

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

Specific regulations: Directive 2012/18/EU Named dangerous substances - ANNEX 1 None of the ingredients is listed. Seveso category P3b Flammable Aerosols Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t. Qualifying quantity (tonnes) for the application of Upper-tier requirements 50.000 t.

### 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

[cont...]

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**Phrases used in s.2 and s.3:** H222: Extremely flammable aerosol.  
H225: Highly flammable liquid and vapour.  
H229: Pressurised container: May burst if heated  
H280: Contains gas under pressure; may explode if heated.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



