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# SAFETY DATA SHEET PROPAN-2-OL

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

1.1. Product identifier

Product name PROPAN-2-OL

Product number 461

Synonyms; trade names IPA,IPS,SEC PROPYL ALCOHOL,ISOPROPYL ALCOHOL,CAFSOL 2,EVERBLEND

15,AL11,IPA LOW ODOUR,ISOPROPANOL,ISOPROPANOL PC SSL,ISOPROPANOL PC

SHL,ISOPROPANOL SSL,MX-THINNER HTS 83698,ISOPROPANOL

SHELL, ISOPROPANOL EP, ISOPROPANOL (PHARMA), ISOPROPANOL MIN

99.5%, ISOPROPANOL MIN. 99.8%, ISOPROPANOL (IPA), ISOPROPANOL C+, ISOPROPYL

ALCOHOL TT-I-735A

**REACH** registration number 01-2119457558-25

CAS number 67-63-0

EU index number 603-117-00-0 EC number 200-661-7

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

Identified uses Industrial Solvent In household and cosmetic chemical industry. Pharmaceuticals Chemicals

used in the synthesis and / or formulation of industrial products

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

Supplier **Express Chems** 

Unit 27, 3 Campsie Rd, Kirkintilloch, Glasgow

G66 1SL info@expresschems.co.uk

+44 141 776 5666

### 1.4. Emergency telephone number

**Emergency Contact Number** +44 1274 267346

(Office Hours)

**Emergency Contact Number** +441865 407333

(Outside Office Hours)

S ds No. 461

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification

Physical hazards Flam. Liq. 2 - H225

Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336

### PROPAN-2-OL

**Environmental hazards** Not Classified

Classification (67/548/EEC or F; R11. Xi; R36. R67

1999/45/EC)

2.2. Label elements

EC number 200-661-7

**Pictogram** 





Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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

smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapour/spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

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/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 POISON CENTER/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

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

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

#### 2.3. Other hazards

None.

### SECTION 3: Composition/information on ingredients

### 3.1. Substances

**Product name** PROPAN-2-OL

**REACH registration number** 01-2119457558-25

EU index number 603-117-00-0

CAS number 67-63-0

EC number 200-661-7

### PROPAN-2-OL

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Get medical attention.

**Ingestion** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the

lungs. Get medical attention.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention if any discomfort continues.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort

continues.

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

Inhalation Vapours may irritate throat/respiratory system. Symptoms following overexposure may include

the following: Coughing. May cause drowsiness or dizziness.

**Ingestion** Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause

chemical pneumonitis.

Skin contact Product has a defatting effect on skin. Dryness and/or cracking.

**Eye contact** Irritating to eyes. Symptoms following overexposure may include the following: Redness.

Pain.

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

Notes for the doctor 
No specific recommendations. If in doubt, get medical attention promptly.

### SECTION 5: Firefighting measures

# 5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards Oxides of the following substances: Carbon. The product is highly flammable. Vapours are

heavier than air and may spread near ground and travel a considerable distance to a source

of ignition and flash back.

### 5.3. Advice for firefighters

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

### SECTION 6: Accidental release measures

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

Personal precautions Follow precautions for safe handling described in this safety data sheet Take precautionary

measures against static discharges. Provide adequate ventilation.

### 6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the

Environmental Agency or other appropriate regulatory body.

### PROPAN-2-OL

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

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near

spillage. Provide adequate ventilation. Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste

disposal containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Keep away from heat, sparks and open flame. Storage tanks and other

containers must be earthed. Avoid contact with skin and eyes. Use mechanical ventilation in

case of handling which causes formation of vapours.

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

Storage precautions Keep away from heat, sparks and open flame. Store in tightly-closed, original container in a

well-ventilated place.

**Storage class** Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

### Occupational exposure limits

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³ Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

WEL = Workplace Exposure Limit

DNEL Industry - Dermal; Long term systemic effects: 888 mg/kg/day

Industry - Inhalation; Long term systemic effects: 500 mg/m³ Consumer - Dermal; Long term systemic effects: 319 mg/kg/day Consumer - Inhalation; Long term systemic effects: 89 mg/m³ Consumer - Oral; Long term systemic effects: 26 mg/kg/day

PNEC - Fresh water; 140.9 mg/l

Marine water; 140.9 mg/lIntermittent release; 140.9 mg/l

- STP; 2251 mg/l

Sediment (Freshwater); 552 mg/kgSediment (Marinewater); 552 mg/kg

- Soil; 28 mg/kg

## 8.2. Exposure controls

#### Protective equipment









Eye/face protection

The following protection should be worn: Chemical splash goggles. EN 166

### PROPAN-2-OL

**Hand protection**Use protective gloves. The most suitable glove should be chosen in consultation with the

glove supplier/manufacturer, who can provide information about the breakthrough time of the

glove material. EN 374

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. EN

136/140/145/143/149

# **SECTION 9: Physical and Chemical Properties**

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

Appearance Liquid.

Colour Colourless.
Odour Alcoholic.

**pH** Data lacking.

Melting point -88°C

Initial boiling point and range 82 - 83°C @

Flash point 12°C
Evaporation rate 1.5

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 12 Lower flammable/explosive limit: 2.0

Vapour pressure 6020 Pa @ °C

Vapour density 2

Relative density 0.78-0.79 @ @ 20C°C

Bulk density Data lacking. «59» «184» «109012»

Solubility(ies) Soluble in water.

Partition coefficient log Pow: 0.05

Auto-ignition temperature 425°C

**Decomposition Temperature** Data lacking.

Viscosity 2.43 mPa s @ 20°C

Explosive properties Data lacking.

Oxidising properties Not available.

9.2. Other information

Refractive index 1.377 at 20C

Molecular weight 60.1

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Strong oxidising agents. Strong acids.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

# PROPAN-2-OL

Possibility of hazardous

reactions

Solvent vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods

of time

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Alkali metals. Amines. Aluminium. Iron.

10.6. Hazardous decomposition products

Hazardous decomposition

Oxides of the following substances: Carbon.

products

### SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD50

5.000.0

mg/kg)

**Species** Rat

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅o

mg/kg)

5,000.0

**Species** Rabbit

Notes (dermal LD50) LD50 >5000 mg/kg, Dermal, Rabbit

Skin corrosion/irritation

Animal data Not irritating.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vivo Data lacking.

Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Data lacking.

Specific target organ toxicity - single exposure

STOT - single exposure Data lacking.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Data lacking.

# **PROPAN-2-OL**

**Inhalation** May cause respiratory system irritation. Vapours may cause drowsiness and dizziness.

**Ingestion** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a

serious chemical pneumonia.

**Skin contact** Prolonged contact may cause dryness of the skin.

**Eye contact** Irritating to eyes.

### SECTION 12: Ecological Information

**Ecotoxicity** The product is not expected to be toxic to aquatic organisms.

12.1. Toxicity

**Toxicity** Not considered toxic to fish.

Acute toxicity - fish LC<sub>50</sub>, 48 hours: >100 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: >100 mg/l, Scenedesmus subspicatus

### 12.2. Persistence and degradability

Persistence and degradability The substance is readily biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: 0.05

12.4. Mobility in soil

**Mobility** The product is soluble in water.

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

Other adverse effects No data available.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority. Do not puncture or incinerate, even when empty. Materials such as cleaning rags and paper wipes that are contaminated with flammable liquids may self-ignite after use and should be stored in

designated fireproof containers with tight-fitting, self-closing lids.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

# SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1219 UN No. (IMDG) 1219

## PROPAN-2-OL

1219 UN No. (ICAO)

14.2. UN proper shipping name

Proper shipping name

ISOPROPANOL (ISOPROPYL ALCOHOL)

(ADR/RID)

Proper shipping name

ISOPROPANOL (ISOPROPYL ALCOHOL)

(IMDG)

Proper shipping name (ICAO) ISOPROPANOL (ISOPROPYL ALCOHOL)

Proper shipping name (ADN) ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)

ADR/RID class

ADR/RID subsidiary risk

3 ADR/RID label

**IMDG** class 3

IMDG subsidiary risk

ICAO class/division 3

ICAO subsidiary risk

Transport labels



14.4. Packing group

ADR/RID packing group Ш

IMDG packing group Ш

ICAO packing group Ш

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

**EmS** F-E, S-D

•2YE **Emergency Action Code** 

Hazard Identification Number 33

(ADR/RID)

Tunnel restriction code (D/E)

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

Transport in bulk according to Cat Z

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

# PROPAN-2-OL

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

This product may impact SEVESO storage regulations.

Guidance CHIP for everyone HSG228.

Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and Preparations.

Approved Classification and Labelling Guide (Sixth edition) L131.

Water hazard classification WGK 1

Inventory Information TSCA AICS DSL ENCS EINECS PICCS ISHL

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

#### SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 13/05/2015

Revision 03 SDS number 461

SDS status Approved.

Signature Jitendra Panchal

Risk phrases in full R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

**Hazard statements in full** H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.