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, ISOPROPA NOLE PC SSL, ISOPROPA NOLE PC SHL, ISOPROPA NOLE SSL, MX-THINNER HTS 83698, ISOPROPA NOLE SHELL, ISOPROPA NOLE EP, ISOPROPA NOLE (PHARMA), ISOPROPA NOLE MIN 99.5%, ISOPROPA NOLE MIN. 99.8%, ISOPROPA NOLE (IPA), ISOPROPA NOLE C+, ISOPROPYL ALCOHOL TT-I-735A, ISOPROPA NOLE PH SHL

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: Univar
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
sds@univar.com
+44 1274 267306

1.4. Emergency telephone number

Emergency Contact Number (Outside Office Hours): SGS - +32 (0)3 575 55 55 (24h)
Emergency Contact Number (Office Hours): +44 1274 267346
Sds 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 1999/45/EC)
F; R11. Xi; R36. R67

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.
P261 Avoid breathing vapour/spray.
P304+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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

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.
PROPAN-2-OL

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.

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/l  
- Intermittent release;  140.9 mg/l  
- STP;  2251 mg/l  
- Sediment (Freshwater);  552 mg/kg  
- Sediment (Marine water);  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

Hand protection  
Use protective gloves. Nitrile rubber. EN 374

Other skin and body protection  
Wear apron or protective clothing in case of contact.

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.
### PROPAN-2-OL

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<td>Melting point</td>
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<td>Initial boiling point and range</td>
<td>82 - 83°C</td>
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<td>Flash point</td>
<td>12°C</td>
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<td>Evaporation rate</td>
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<td>Upper flammable/explosive limit: 12  Lower flammable/explosive limit: 2.0</td>
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<td>Vapour pressure</td>
<td>6020 Pa @ °C</td>
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<td>Vapour density</td>
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<td>Relative density</td>
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<td>Viscosity</td>
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<td>Oxidising properties</td>
<td>Not available.</td>
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<td>Refractive index: 1.377 at 20°C</td>
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<td>Molecular weight: 60.1</td>
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**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

**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**


10.6. Hazardous decomposition products

**Hazardous decomposition products**

Oxides of the following substances: Carbon.

**SECTION 11: Toxicological information**
### PROPAN-2-OL

#### 11.1. Information on toxicological effects

**Acute toxicity - oral**

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<th>Acute toxicity oral (LD&lt;sub&gt;50&lt;/sub&gt; mg/kg)</th>
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<td>Species</td>
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<td>Notes (oral LD&lt;sub&gt;50&lt;/sub&gt;)</td>
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**Acute toxicity - dermal**

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<td>Species</td>
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<td>Notes (dermal LD&lt;sub&gt;50&lt;/sub&gt;)</td>
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</table>

**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.

**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.
PROPN-2-OL

Acute toxicity - fish  LC₅₀, 48 hours: >100 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates  EC₅₀, 48 hours: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants  EC₅₀, 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
UN No. (ICAO)  1219

14.2. UN proper shipping name
Proper shipping name (ADR/RID)  ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper shipping name (IMDG)  ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper shipping name (ICAO)  ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper shipping name (ADN)  ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)
ADR/RID class  3
PROPAN-2-OL

14.4. Packing group

ADR/RID packing group  II
IMDG packing group  II
ICAO packing group  II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS  F-E, S-D
Emergency Action Code  Y2YE
Hazard Identification Number (ADR/RID)  33
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 Annex II of MARPOL 73/78 and the IBC Code  Cat Z

SECTION 15: Regulatory information

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


This product may impact SEVESO storage regulations.

Water hazard classification  WGK 1

15.2. Chemical safety assessment
PROPAN-2-OL

A chemical safety assessment has been carried out.

**Inventories**

**EU - EINECS/ELINCS**
All the ingredients are listed or exempt.

**Canada - DSL/NDSL**
All the ingredients are listed or exempt.

**US - TSCA**
All the ingredients are listed or exempt.

**Australia - AICS**
All the ingredients are listed or exempt.

**Philippines – PICCS**
All the ingredients are listed or exempt.

**SECTION 16: Other information**

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<th>NOTE: Lines within the margin indicate significant changes from the previous revision.</th>
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<td>Signature</td>
<td>Jitendra Panchal</td>
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<td>Risk phrases in full</td>
<td>R11 Highly flammable.</td>
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<td>R36 Irritating to eyes.</td>
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<td>R67 Vapours may cause drowsiness and dizziness.</td>
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<tr>
<td>Hazard statements in full</td>
<td>H225 Highly flammable liquid and vapour.</td>
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<tr>
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