

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 13.12.2012

1. **IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 **Product identifiers**

Product name PROPAN-1-OL Product Number · 52 7521

•	52-7551
:	Rapid
:	603-003-00-0
:	71-23-8
	:

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Rapid Electronics, Severalls Lane, Colchester, Essex, CO4 5JS, United Kingdom	
Telephone Fax E-mail address	:	+44 (0) 1206 751166 +44 (0) 1206 751188 sales@rapidelec.co.uk	

1.4 **Emergency telephone number**

Emergency Phone # : +44 (0) 1206 751166

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Flammable liquids (Category 2) Serious eye damage (Category 1) Specific target organ toxicity - single exposure (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC Highly flammable. Vapours may cause drowsiness and dizziness. Risk of serious damage to eyes.

2.2 Label elements

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

Signal word Danger

Hazard statement(s)	
H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ eye protection/ face protection.

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

Supplemental Hazard Statements

none

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According to European Directive 67/548/EEC as amended.

Hazard symbol(s) R-phrase(s)	
R11	Highly flammable.
R41	Risk of serious damage to eyes.
R67	Vapours may cause drowsiness and dizziness.
S-phrase(s)	
S 7	Keep container tightly closed.
S16	Keep away from sources of ignition - No smoking.
S24	Avoid contact with skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39	Wear eye/face protection.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Substances Synonyms	:	Propyl alcohol
	Formula Molecular Weight	:	C ₃ H ₈ O 60.10 g/mol
	Component		
	n-Propanol		74.00.0
	CAS-No.		71-23-8

CAS-No.	71-23-8	-	
EC-No.	200-746-9		
Index-No.	603-003-00-0		

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Central nervous system depression, prolonged or repeated exposure can cause:, narcosis, Skin irritation

4.3 Indication of any immediate medical attention and special treatment needed no data available

Concentration

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides

5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
n-Propanol	71-23-8	STEL	250 ppm 625 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
	Remarks	for which	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
		TWA	200 ppm 500 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
		Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash protection Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 72 min Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance Form: clear, liquid Colour: colourless
- b) Odour no data available
- c) Odour Threshold no data available
- d) pH 8.5 at 200 g/l at 20 °C
- e) Melting point/freezing Melting point/range: -127 °C lit. point

	f)	Initial boiling point and boiling range	97 °C - lit.
	g)	Flash point	22 °C - closed cup
	h)	Evaporation rate	1
	i)	Flammability (solid, gas)	no data available
	j)	Upper/lower flammability or explosive limits	Upper explosion limit: 13.7 %(V) Lower explosion limit: 2.1 %(V)
	k)	Vapour pressure	19.3 hPa at 20 °C
	I)	Vapour density	2.07 - (Air = 1.0)
	m)	Relative density	0.804 g/cm3 at 25 °C
	n)	Water solubility	completely soluble
	o)	Partition coefficient: n- octanol/water	log Pow: 0.25 - 0.34
	p)	Auto-ignition temperature	no data available
	q)	Decomposition temperature	no data available
	r)	Viscosity	no data available
	s)	Explosive properties	no data available
	t)	Oxidizing properties	no data available
9.2	Other safety information no data available		
10.	STABILITY AND REACTIVITY		
10.1	Reactivity		
	no data available		
10.2	Chemical stability no data available		
10.3	Possibility of hazardous reactions no data available		
10.4	Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.		
10.5			
10.6		zardous decomposition poducts	
11.	TOXICOLOGICAL INFORMATION		
11.1	Information on toxicological effects		
	Acute toxicity		

Acute toxicity LD50 Oral - rat - 8,038 mg/kg

LC50 Inhalation - rat - 1 h - 20000 ppm

LC50 Dermal - rabbit - 4,000 mg/kg

Skin corrosion/irritation

Skin - rabbit - Mild skin irritation

Serious eye damage/eye irritation

Eyes - rabbit - Severe eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	Causes eye burns.

Signs and Symptoms of Exposure

Central nervous system depression, prolonged or repeated exposure can cause:, narcosis, Skin irritation

Additional Information RTECS: UH8225000

12. **ECOLOGICAL INFORMATION**

12.1 Toxicity

d minnow) - 1,000 mg/l - 96 h
d minnow) - 1,000 mg/l - 96

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 3,642 mg/l - 48 h other aquatic invertebrates

- 12.2 Persistence and degradability Biodegradability
- **Bioaccumulative potential** 12.3 no data available
- 12.4 Mobility in soil no data available
- 12.5 Results of PBT and vPvB assessment no data available
- 12.6 Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14.	TRANSPORT INFORMATION		
14.1	UN number ADR/RID: 1274	IMDG: 1274	IATA: 1274
14.2	UN proper shipping nameADR/RID:n-PROPANOLIMDG:n-PROPANOLIATA:n-Propanol		
14.3	Transport hazard class(es) ADR/RID: 3	IMDG: 3	IATA: 3
14.4	Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: no	IMDG Marine Pollutant: no	IATA: no
14.6	Special precautions for user no data available		

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- 15.2 Chemical Safety Assessment

no data available

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.