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1-Propanol CAS No 71-23-8

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers Product name :	1-Propanol	
	CAS-No. :	71-23-8	
1.2	2 Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses :	Laboratory chemicals, Industrial & for professional use only.	
1.3	Details of the supplier of the Company :	safety data sheet Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA	
	Telephone : Email :	+91 11 49404040 care@cdhfinechemical.com	
1.4	Emergency telephone numb Emergency Phone # :		
SEC	FION 2: Hazards identification		
2.1	Classification of the substance or mixture		
	Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2), H225 Serious eye damage (Category 1), H318 Specific target organ toxicity - single exposure (Category 3), H336		
For the full text of the H-Statements mentioned in this Section, see Section 16.			
	Classification according to E F Highly flammable	EU Directives 67/548/EEC or 1999/45/EC R11 R67	
	Xi Irritant	R41	
	For the full text of the R-phrase	es mentioned in this Section, see Section 16.	
2.2	Label elements		
	Labelling according Regulati Pictogram	ion (EC) No 1272/2008	



Signal word

H225

Hazard statement(s)

Highly flammable liquid and vapour.

H318 H336	Causes serious eye damage. May cause drowsiness or dizziness.
Precautionary statement(s) P210 P261 P280 P305 + P351 + P338	Keep away from heat/sparks/open flames/hot surfaces No smoking. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. 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
A (1 1	

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

8.1	Substances Synonyms	:	Propyl alcohol
	Formula	:	C _{3H8O}
	Molecular weight	:	60,10 g/mol
	CAS-No.	:	71-23-8
	EC-No.	:	200-746-9
	Index-No.	:	603-003-00-0
	Registration number	:	01-2119486761-29-XXXX

Component		Classification	Concentration
n-Propanol			
CAS-No.	71-23-8	Flam. Liq. 2; Eye Dam. 1;	<= 100 %
EC-No.	200-746-9	STOT SE 3; H225, H318,	
Index-No.	603-003-00-0	H336	

Hazardous ingredients according to Directive 1999/45/EC			
Component	-	Classification	Concentration
n-Propanol			
CAS-No.	71-23-8	F, Xi, R11 - R41 - R67	<= 100 %
EC-No.	200-746-9		
Index-No.	603-003-00-0		

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

SECTION 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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

SECTION 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 firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, 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. For personal protection see section 8.

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.

SECTION 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.

For precautions see section 2.2.

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)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

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.

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).

Control of environmental exposure

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

SECTION 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)	рН	8,5 at 200 g/l at 20 °C
e)	Melting point/freezing point	Melting point/range: -127 °C - lit.
f)	Initial boiling point and	97 °C - lit.
	boiling range	
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
- s) Explosive properties No data available

No data available

t) Oxidizing properties No data available

9.2 Other safety information

Relative vapour density 2,07 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability Stable under recommended storage conditions.

- **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** Incompatible materials Strong oxidizing agents
- **10.6 Hazardous decomposition products** Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 8.038 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - 1 h - 20000 ppm LC50 Dermal - Rabbit - 4.000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: Severe eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation Maximisation Test (GPMT) - Guinea pig Result: Did not cause sensitisation on laboratory animals.

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

Additional Information

RTECS: UH8225000

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

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 4.555 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3.642 mg/l - 48 h (DIN 38412)
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 9.170 mg/l - 48 h

12.2 Persistence and degradability

Biodegradability Result: 75 % - Readily biodegradable.

Ratio BOD/ThBOD < 2 %

12.3 Bioaccumulative potential

The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

SECTION 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.

SECTION 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		

SECTION 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

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
STOT SE	Specific target organ toxicity - single exposure

Full text of R-phrases referred to under sections 2 and 3

F	Highly flammable
Xi	Irritant
R11	Highly flammable.
R41	Risk of serious damage to eyes.
R67	Vapours may cause drowsiness and dizziness.

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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.