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Propionic Acid CAS No 79-09-4

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers Product name	Propionic Acid
	CAS-No.	79-09-4
1.2	Relevant identified uses of t	he substance or mixture and uses advised against
	Identified uses	Laboratory chemicals, Industrial & for professional use only.
1.3	safety data sheet	
	Company :	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 num	ber

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 3), H226 Skin corrosion (Category 1B), H314 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word

Hazard statement(s) H226 H314 H335

Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause respiratory irritation.

Precautionary statement(s)	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403 + P235	Store in a well-ventilated place. Keep cool.
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Rapidly absorbed through skin.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Propanoic acid Propanyl acid Acid C3
Formula	: C3H6O2
Molecular weight	: 74.08 g/mol
CAS-No.	: 79-09-4
EC-No.	: 201-176-3
Index-No.	: 607-089-00-0

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
Propionic acid			
CAS-No. EC-No. Index-No.	79-09-4 201-176-3 607-089-00-0	Flam. Liq. 3; Skin Corr. 1B; STOT SE 3; H226, H314, H335 Concentration limits: >= 25 %: Skin Corr. 1B, H314; 10 - < 25 %: Skin I 2, H315; 10 - < 25 %: Eye I 2, H319; >= 10 %: STOT 3, H335;	rrit.

For the full text of the H-Statements 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.

lf inhaled

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

In case of skin contact

Take off contaminated clothing and shoes immediately. 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 contact with skin and eyes. 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. Storage class (TRGS 510): Flammable liquids

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

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 (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee 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: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	2.5 at 100 g/l at 20 °C
e)	Melting point/freezing point	Melting point/range: -24 °C - lit.
f)	Initial boiling point and boiling range	141 °C - lit.
g)	Flash point	54 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 12.1 %(V) Lower explosion limit: 2.9 %(V)
k)	Vapour pressure	2.4 mmHg at 20 °C
I)	Vapour density	2.56 - (Air = 1.0)
m)	Relative density	0.993 g/mL at 25 °C

	n)	Water solubility	soluble
	o)	Partition coefficient: n- octanol/water	log Pow: 0.25
	p)	Auto-ignition temperature	440 °C at 1,013 hPa
	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	Oth	ner safety information	
		Surface tension	27.21 mN/m at 15 °C
		Dissociation constant	4.88
		Relative vapour density	2.56 - (Air = 1.0)
SECT		10: Stability and reactivity	ty
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.		
10.5	Incompatible materials Strong oxidizing agents		
10.6	Hazardous decomposition products Hazardous decomposition products formed under fire conditions Carbo Other decomposition products - No data available In the event of fire: see section 5		
SECT		11: Toxicological inform	ation
11.1	Infe	ormation on toxicologica	l effects
	LD: (Of LC: (Of LD:	ECD Test Guideline 401) 50 Inhalation - Rat - male ECD Test Guideline 403)	female - 3,455.1 mg/kg(Propionic acid) and female - 4 h - > 20 mg/l(Propionic acid) 3,235 mg/kg(Propionic acid)

id) (OECD Test Guideline 402) LD50 Intravenous - Mouse - 625 mg/kg(Propionic acid) Remarks: Behavioral:Convulsions or effect on seizure threshold. LD50 Parenteral - Rat - 3,500 mg/kg(Propionic acid)

conditions. - Carbon oxides

Skin corrosion/irritation

Skin - Rabbit(Propionic acid) Result: Causes burns.

Serious eye damage/eye irritation

Eyes - Rabbit(Propionic acid) Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

No data available(Propionic acid)

Germ cell mutagenicity

reverse mutation assay(Propionic acid) S. typhimurium Result: negative OECD Test Guideline 474(Propionic acid) Hamster - male and female Result: negative

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(Propionic acid)

Specific target organ toxicity - single exposure No data available(Propionic acid)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available(Propionic acid)

Additional Information

Repeated dose toxicity - Mouse - female - Lowest observed adverse effect level - 136.9 mg/kg(Propionic acid)

RTECS: UE595000

May cause an asthmatic-like bronchitis., Nausea, Dizziness, Headache, Blood disorders, May cause irritation to eyes and respitatory passages to workers briefly exposed to high concentrations (Propionic acid)

Liver - Irregularities - Based on Human Evidence(Propionic acid)

SECTION 12: Ecological information

12.1 Toxicity

No data available

Biodegradability

12.2 Persistence and degradability

aerobic - Exposure time 20 d(Propionic acid) Result: 93 % - Readily biodegradable

- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available(Propionic acid)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 b 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 numbe ADR/RID: 3	-	IMDG: 3463	IATA: 3463
14.2		shipping name PROPIONIC ACID PROPIONIC ACID Propionic acid		
14.3	Transport hazard class(es) ADR/RID: 8 (3)		IMDG: 8 (3)	IATA: 8 (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 pre No data av	ecautions for user ailable		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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.

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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.