

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Propanoic acid

CAS number 79-09-4

Synonyms Carboxyethane; Ethanecarboxylic acid; Ethylformic acid

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

Identified uses Industrial/Chemical. Feed additive. Food additive.

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable Liquids
Corrosive to Metals
Category 1
Skin Corrosion/Irritation
Category 1B
Serious Eye Damage/Eye Irritation
Category 1
Specific Target Organ Toxicity (single exposure)
Category 3

Target Organ(s) - Respiratory system

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2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements Flammable liquid and vapor.

May be corrosive to metals.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary statements

Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep only in original container. Keep cool.

Response: Immediately call a POISON CENTER or doctor/physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

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

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Fire: In case of fire, use CO2, dry chemical, or foam for extinction.

Spills: Absorb spillage to prevent material damage.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive resistant polypropylene container with a resistant inliner. Store in a dry place.

Disposal: Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

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SECTION 3: Composition/information on ingredients

3.1 Components

Chemi	ical name	Common name and synonyms	CAS number	Concentration
Propa	anoic acid	Carboxyethane; Ethanecarboxylic acid; Ethylformic acid	79-09-4	>95%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If not breathing, give artificial respiration. Remove from exposure, lie down.

Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a

physician immediately.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove

and wash contaminated clothing and gloves, including the inside, before re-

use. Call a physician immediately.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

If swallowed Do NOT induce vomiting. Clean mouth with water. Never give anything by

mouth to an unconscious person. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation.

4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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Suitable extinguishing media CO2, dry chemical, dry sand, alcohol-resistant

foam.

Unsuitable extinguishing mediaNo information available.

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin, and mucous membranes.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

5.4 Further information

Flash Point 51 °C / 123.8 °F

Autoignition Temperature 485 °C / 905 °F

Explosion limits

Upper 12.1 vol % **Lower** 2.1 vol %

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
3	2	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed, seek immediate medical assistance.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place. Corrosives area. Keep away from heat, sparks, and flame. Do not store in metal containers.

Incompatibilities

Bases. Strong oxidizing agents. Amines. Halogens. Metals. Reducing agents.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Va	lue
Propionic acid	(Vacated) TWA	10 ppm	30 mg/m3

US. ACGIH Threshold Limit Values

Component	Type	Value
Propionic acid	TWA	10 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value	
Propionic acid	TWA	10 ppm	30 mg/m3
i Topionic aciu	STEL	15 ppm	45 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

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Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles. Face protection shield.

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143 or Acid gases filter. Type E. Yellow. conforming to EN14387.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid

Appearance No information available

Odor Pungent

Odor Threshold

pH

2.5 (100 g/l aq. sol)

Melting Point/Range

-22 °C / -7.6 °F

Boiling Point/Range 141 °C / 285.8 °F @ 760 mmHg

Evaporation Rate No information available

Flammability (solid) Not applicable

Flammability or explosive limit

Upper 12.1 vol %
Lower 2.1 vol %

Vapor Pressure 5 mbar @ 20 °C

Vapor Density 2.56
Density 0.99
Solubility Miscible

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No data available Partition coefficient:

n-octanol/water

485 °C / 905 °F **Autoignition Temp**

No information available **Decomposition Temp** 1.02 mPa.s at 25 °C

Viscosity

C3 H6 O2 Molecular Formula 74.08 g/mol Molecular Weight

No information available VOC Content(%) No information available Oxidizing properties

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces, and sources of ignition.

10.5 Incompatible materials

Bases, Strong oxidizing agents, Amines, Halogens, Metals, Reducing agents.

10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Propionic acid	3455 mg/kg (Rat)	3235 mg/kg (Rabbit)	> 19.7 mg/l (Rat) 1h

Skin corrosion/irritation

Causes burns by all exposure routes.

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Serious eye damage/eye irritation

Causes burns by all exposure routes.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

Not mutagenic in AMES Test.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Propionic acid	79-09-4	Not listed				

Specific target organ toxicity - single exposure

Respiratory system.

Specific target organ toxicity - repeated exposure

None known.

Reproductive toxicity

No information available.

Chronic effects

Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation.

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Do not empty into drains.

Product		Species	Test Results
	EC50	Desmodesmus subspicatus	45.8 mg/L, 72h 43 mg/L, 96h
Propionic acid	LC50	Oncorhynchus mykiss	51 mg/L, 96h static
Propionic acid	LC50	Lepomis macrochirus	73 - 99.7 mg/L, 96h static
	LC50	Pimephales promelas	> 1 mg/L, 96h static
	EC50	Microtox	59.6 mg/L, 17h

12.2 Persistence and degradability

Miscible with water. Persistence is unlikely based on information available.

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12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-no UN3463

Proper Shipping Name PROPIONIC ACID

Hazard Class 8
Subsidiary Hazard Class 3
Packing Group II

IMDG

UN-no UN3463

Proper Shipping Name PROPIONIC ACID

Hazard Class 8
Subsidiary Hazard Class 3
Packing Group II

IATA

UN-no UN3463

Proper Shipping Name PROPIONIC ACID

Hazard Class 8
Subsidiary Hazard Class 3
Packing Group II

SECTION 15: Regulatory information

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US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, Propionic acid (CAS #79-09-4), RQ: 5000 lb.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See Section 2 for more information.

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA) - Hazardous Substances

Listed, Propionic acid (CAS #79-09-4), RQ: 5000 lb.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Listed, Propionic acid (CAS #79-09-4).

US state regulations

US. Massachusetts RTK - Substance List

Listed, Propionic acid (CAS #79-09-4).

US. New Jersey Worker and Community Right-to-Know Act

Listed, Propionic acid (CAS #79-09-4).

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US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Propionic acid (CAS #79-09-4).

California Proposition 65

Not listed.

SECTION 16: Other information

Issue date: 03/30/2022 Revision 1: 02/12/2025

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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