

## SAFETY DATA SHEET

### Propionic Acid, Food Grade, Kosher

Version 22.3 PRD	Revision Date: 03/30/2022	SDS Number: 150000014309 SDSUS / Z8 / 0001	Date of last issue: 02/10/2022 Date of first issue: 09/06/2016
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#### SECTION 1. IDENTIFICATION

Product name : Propionic Acid, Food Grade, Kosher  
Product code : PPALF

#### Manufacturer or supplier's details

Company name of supplier : Lab Alley LLC  
Address : 22111 Highway 71 West, Suite 601  
Spicewood, Texas 78669  
Telephone : 512-668-9918  
Emergency telephone : Infotrac: 800-535-5053

#### Recommended use of the chemical and restrictions on use

Recommended use : Industrial chemical  
Feed additive.  
Food additive.  
Restrictions on use : None known.

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#### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 3  
Skin corrosion : Category 1B  
Serious eye damage : Category 1  
Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.

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H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

Precautionary Statements :

**Prevention:**

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
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 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Substance name : 19703-00

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CAS-No.                            : 79-09-4

### Components

Chemical name	CAS-No.	Concentration (% w/w)
propionic acid	79-09-4	>= 90 - <= 100

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

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### SECTION 4. FIRST AID MEASURES

- If inhaled                            : Move to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact            : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
Wash contaminated clothing before re-use.  
Call a physician or poison control center immediately.  
Thoroughly clean shoes before reuse.
- In case of eye contact            : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Call a physician or poison control center immediately.
- If swallowed                        : Seek medical advice.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed                        : Causes serious eye damage.  
May cause respiratory irritation.  
Causes severe burns.

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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media    : Water spray  
Dry chemical  
Carbon dioxide (CO2)  
Alcohol-resistant foam

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Alcohol-resistant foam  
Carbon dioxide (CO2)  
Dry chemical  
Water spray

Unsuitable extinguishing media : None known.

Water spray jet

Specific hazards during fire fighting : Water may be ineffective.  
The product will float on water and can be reignited on surface water.

Hazardous combustion products : No hazardous combustion products are known

Further information : Flammable liquid and vapor.  
Use water spray to cool unopened containers.  
  
Use water spray to cool unopened containers.

Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear appropriate personal protective equipment.  
Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
After cleaning, flush away traces with water.  
Eliminate all ignition sources if safe to do so.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.  
  
None known.

Advice on safe handling : Do not breathe vapors or spray mist.  
Do not get on skin or clothing.  
Do not get in eyes.  
Do not swallow.

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Ensure adequate ventilation.  
Wash thoroughly after handling.  
Keep away from fire (No Smoking).  
Keep away from fire, sparks and heated surfaces.  
Do not use sparking tools.

Conditions for safe storage : Keep container closed when not in use.  
Store locked up.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propionic acid	79-09-4	TWA	10 ppm	ACGIH
		TWA	10 ppm 30 mg/m3	NIOSH REL
		ST	15 ppm 45 mg/m3	NIOSH REL
		TWA	10 ppm 30 mg/m3	OSHA P0

**Engineering measures** : Ensure adequate ventilation.

Good general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels.  
Ensure adequate ventilation.

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Wear chemical-resistant gloves, boots, and protective clothing appropriate for the risk of exposure. Contact glove manufacturer for specific information. Wash hands after handling.  
Wear suitable gloves.

Eye protection : Safety glasses with side-shields  
Face-shield  
Safety glasses

Skin and body protection : acid-resistant protective clothing

Protective measures : Remove respiratory and skin/eye protection only after vapors

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have been cleared from the area.  
Ensure that eye flushing systems and safety showers are located close to the working place.  
Use personal protective equipment as required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: colorless
Odor	: unpleasant
pH	: not determined
Melting point/range	: -8 °F / -22 °C
Boiling point/boiling range	: 286 °F / 141 °C
Flash point	: 120 °F / 49 °C
Evaporation rate	: not determined
Vapor pressure	: not determined
Relative vapor density	: 2.6
Relative density	: 1 (68 °F / 20 °C)
Solubility(ies) Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: Pow: 2.1 log Pow: 0.33
Autoignition temperature	: 955.0 °F / 512.8 °C Method: ASTM D2155
Viscosity Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Explosive properties	: No data available

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Oxidizing properties : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Stable  
Hazardous decomposition products formed under fire conditions.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents  
Oxidizing agents

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : LD50 Oral (Rat): 3,455.1 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### Components:

##### propionic acid:

Acute oral toxicity : LD50 Oral (Rat): 3,455.1 mg/kg

#### Skin corrosion/irritation

Causes severe burns.

#### Product:

Remarks : Causes severe skin burns.

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### Serious eye damage/eye irritation

Causes serious eye damage.

#### Product:

Remarks : Causes serious eye damage.

#### Components:

##### propionic acid:

Species : Rabbit  
Result : Corrosive  
Assessment : Corrosive

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### Product:

Test Type : OECD 406: Guinea pig sensitization  
Remarks : No data available

#### Components:

##### propionic acid:

Test Type : Skin sensitization  
Species : Guinea pig  
Result : non-sensitizing

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### propionic acid:

Genotoxicity in vitro : Test Type: Mutagenicity - Bacterial  
Metabolic activation: +/- activation  
Result: negative

Test Type: Mutagenicity - Mammalian  
Metabolic activation: +/- activation  
Result: negative  
Remarks: Read-across from a similar material

Test Type: Chromosome aberration test in vitro  
Metabolic activation: +/- activation  
Result: negative  
Remarks: Read-across from a similar material



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Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Hamster  
Application Route: Intraperitoneal injection  
Result: negative

### Carcinogenicity

Not classified based on available information.

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

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

May cause respiratory irritation.

#### STOT-repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

#### Product:

No aspiration toxicity classification

### Experience with human exposure

#### Product:

Inhalation : Remarks: None known.

Skin contact : Remarks: Causes severe skin burns.

Eye contact : Remarks: Causes serious eye damage.

Ingestion : Remarks: None known.

### Further information

#### Product:

Remarks : None known.

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

Toxicity to fish	:	LC50 (golden orfe): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Scenedesmus subspicatus): > 500 mg/l Exposure time: 72 h

##### Components:

##### **propionic acid:**

Toxicity to fish	:	LC50 (golden orfe): > 10,000 mg/l Exposure time: 96 h Remarks: Read-across from a similar material
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h Remarks: Read-across from a similar material
Toxicity to algae/aquatic plants	:	EC50 (Scenedesmus subspicatus): > 500 mg/l Exposure time: 72 h Remarks: Read-across from a similar material

#### Persistence and degradability

##### Product:

Biodegradability	:	Test Type: Ozone depletion Result: Readily biodegradable Biodegradation: 60 % Exposure time: 2 d
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##### Components:

##### **propionic acid:**

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 73 % Exposure time: 10 d
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#### Bioaccumulative potential

##### Components:

##### **propionic acid:**

Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
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Partition coefficient: n-  
octanol/water : Pow: 2.1  
log Pow: 0.33

### Mobility in soil

#### Components:

##### propionic acid:

Distribution among environ-  
mental compartments : Koc: 1.201, log Koc: 0.079

#### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3463  
Proper shipping name : Propionic acid  
Class : 8  
Subsidiary risk : 3  
Packing group : II  
Labels : Corrosive, Flammable Liquids  
Packing instruction (cargo  
aircraft) : 855  
Packing instruction (passen-  
ger aircraft) : 851

#### IMDG-Code

UN number : UN 3463  
Proper shipping name : PROPIONIC ACID  
  
Class : 8  
Subsidiary risk : 3  
Packing group : II  
Labels : 8 (3)  
EmS Code : F-E, S-C  
Marine pollutant : no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Domestic regulation

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### 49 CFR

UN/ID/NA number : UN 3463  
Proper shipping name : Propionic acid  
  
Class : 8  
Subsidiary risk : 3  
Packing group : II  
Labels : CORROSIVE, FLAMMABLE LIQUID  
ERG Code : 132  
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
propionic acid	79-09-4	5000	5000

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Specific target organ toxicity (single or repeated exposure)  
Serious eye damage or eye irritation  
Skin corrosion or irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory  
TSCA : All substances listed as active on the TSCA inventory  
AIRC : On the inventory, or in compliance with the inventory  
DSL : All components of this product are on the Canadian DSL

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ENCS : On the inventory, or in compliance with the inventory  
ISHL : On the inventory, or in compliance with the inventory  
KECI : On the inventory, or in compliance with the inventory  
PICCS : On the inventory, or in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory  
NZIoC : On the inventory, or in compliance with the inventory  
TECI : On the inventory, or in compliance with the inventory

### TSCA list

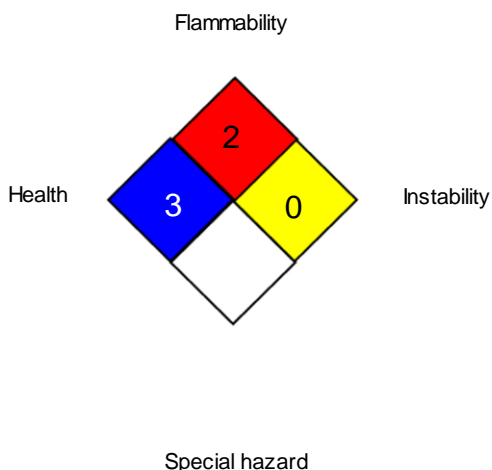
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	/	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
NIOSH REL : USA. NIOSH Recommended Exposure Limits  
OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
ACGIH / TWA : 8-hour, time-weighted average

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NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 03/30/2022

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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