

HEALTH	3
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Propionic Acid, Natural
Product Number	0292400
CAS-No.	79-09-4

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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Telephone	845-496-6065
Fax	845-496-6248

1.4 Emergency Telephone Number

1-800-535-5053
International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	Flammable liquids (Category 3), H226 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 3), H402
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement
Hazard Statement(s)

DANGER

Precautionary Statement(s)

H227	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
H318	Serious eye damage
H402	Acute aquatic toxicity
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

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
P403+P235	Store in a well ventilated place. Keep cool
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 HNO₃ (Hazards not otherwise classified or not covered by GHS) None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	Propionic Acid Propanyl acid Acid C3
Formula	C ₃ H ₆ O ₂
Molecular Weight	74.05 g/mol
CAS-No	79-09-4
EC-No.	201-176-3

Hazardous Components

Component	Classification	Concentration
Propionic Acid	Flammable liquids (3), H226 Skin corrosion (1B), H314 Serious eye damage (1), H318 Acute aquatic toxicity (3), H402	90-100%

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. Move out of dangerous area.
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes as a precaution. Consult a physician.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

- 4.2 **Most important symptoms and effects both acute and delayed** See section 2.2 and or 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 fire fighters** Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions.
- 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 vapors. Mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. **Vapors can accumulate in low areas.**
- 6.2 **Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. Discharge into the environment must be avoided.
- 6.3 **Methods and materials for containment and clean up** Contain spillage. Wet Sweep up with broom and place in a suitable, closed container for disposal.
- 6.4 **Specific end use(s)** Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

Section 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
- 7.2 **Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.
- 7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.:	Value	Control Parameters	Basis
Propionic Acid	79-09-4	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV
	Remarks	Eye, skin and Upper Respiratory Tract Irritation		
		TWA	10 ppm 30 mg/m ³	USA. NIOSH Recommended exposure limits
		TWA	10 ppm 30 mg/m ³	USA OSHA – Table Z-1 Limits for Air Contaminates – 1910.1000
		ST	15 ppm 45 mg/m ³	USA NIOSH Recommended Exposure Limits

8.2 Exposure Controls

Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.
Personal protective equipment	These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.
Eye/face protection	Tightly fitting safety goggles. Face shield (8" min.). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection	Wear chemically resistant Butyl rubber gloves, 0.3 mm. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Complete suit of flame retardant, antistatic material, protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate, use a full face respirator with multi-purpose combination (U) 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 faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U) or CEN (EU).
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

a Appearance	Liquid, Colorless Solid below 5°F
b Odor	Pungent, disagreeable, rancid odor
c Odor Threshold	No data available
d pH	2.5 at 100 g/l at 20°C
e Melting Point /Freezing Point	Melting Point: -24 to -23°C
f Boiling Point	141°C
g Flash Point	54°C closed cup
h Evaporation Rate	No data available
i Flammability (Solid, Gas)	No data available
j Upper/lower Flammability Limit	Upper explosion limit: 12.1% (V) Lower explosion limit: 2.9% (V)
k Vapor pressure	3.2 hPa at 20°C 13. hPa at 39.70°C
l Vapor density	2.56 (Air = 1.0)
m Relative density @25°C	0.993 g/mL at 25°C
n Solubility	Soluble in most organic solvents, alcohol and water

Safety Data Sheet

o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp,	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

Surface tension: 27.21 mN/m at 15°C

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
10.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral- Rat

3,500-4,200 mg/kg

LC50-Intravenous-Mouse

625 mg/kg

Remarks: Behavioral: Convulsions or effect on seizure threshold

LC50-Parenteral-Rat

3,500 mg/kg

LD50-Dermal-Rabbit

No data available

Skin corrosion/irritation

Rabbit: Causes burns

Serious eye damage/eye irritation

Rabbit: Corrosive to eyes

Respiratory or skin sensitization

No data available

Germ Cell mutagenicity

No data available

Carcinogenicity

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

ACGIH No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

OSHA No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity-single exposure (GHS)

May cause respiratory irritation

Safety Data Sheet

Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Signs and Symptoms of Exposure	May cause an asthmatic-like bronchitis, Nausea, Dizziness, Headache, Blood Disorders. May cause irritation to eyes and respiratory passages to workers briefly exposed to high concentrations. Liver: Irregularities – Based on Human Evidence
Synergistic effects RTECS:	No data available UE5950000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	To Fish: LC50-Oncorhynchus mykiss (rainbow trout) – 51.0 – 73.2 mg/l 96 hr To daphnia and other aquatic invertebrates Lc50-Daphnia magna (Water Flea) – 21.0 – 24.6 mg/l 48 hr
12.2 Persistence and degradability	Biodegradability: Aerobic – Exposure time 10 d Result: 95% Readily biodegradable
12.3 Bioaccumulative potential	No data available
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	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods	
Product:	According to local regulations
Packaging	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN Number: 3463 Class: 8 (3) Packing Group II
Proper Shipping Name	Propionic Acid
Reportable Quantity (RQ)	5000 lbs
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG	UN Number: 3463 Class: 8 (3) Packing Group II EMS-No: F-E, S-C
Proper Shipping Name	PROPIONIC ACID
Marine Pollutant	No
IATA	UN Number: 3463 Class: 8 (3) Packing Group II
Proper Shipping Name	Propionic Acid

Section 15: REGULATORY INFORMATION

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 Components	This material does not contain any chemical components with known CAS numbers

Safety Data Sheet

that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Hazard

Massachusetts Right to Know components

Propionic Acid CAS# 79-09-4 Rev. Date: 3/1/2007

Pennsylvania Right to Know components

Propionic Acid CAS# 79-09-4 Rev. Date: 3/1/2007

New Jersey Right to Know components

Propionic Acid CAS# 79-09-4 Rev. Date: 3/1/2007

California Prop. 65 components

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

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 3
Chronic Health Hazard
Flammability 2
Reactive Hazard 0

Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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