

150000001212

SAFETY DATA SHEET

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

Product identifier

Product name: Eastman(TM) Propionic Acid

Product No.: EAN 900396. E0027601

Synonyms, Trade Names: 00276-00

Additional identification

Chemical name: propionic acid **CAS-No.:** 79-09-4

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

Identified uses: Industrial chemical. **Uses advised against:** None known.

Details of the supplier of the safety data sheet

Manufacturer / Supplier

Eastman Chemical Company 200 South Wilcox Drive Kingsport, TN 37660-5280 US +14232292000

Visit our website at www.EASTMAN.com or email emnmsds@eastman.com

Emergency telephone number:

For emergency health, safety, and environmental information, call 1-423-229-4511 or 1-423-229-2000.

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300 or call 423-229-2000.

SECTION 2: Hazards identification

Hazard classification:

Physical hazards	
Flammable liquids	Category 3
Health hazards	
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1

OSHA Specified Hazards: not applicable

Warning label items including precautionary statement:

Pictogram:







Signal words: **DANGER!**

Hazard Statement(s): H226: Flammable liquid and vapor.

H314: Causes severe skin burns and eye damage

Precautionary statement:

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.

P280: Wear protective gloves/protective clothing/eye protection/face

P264 Wash hands thoroughly after handling.

P260: Do not breathe dust/fume/gas/mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area.

Response: P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical

or alcohol foam for extinction.

P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all

contaminated clothing. Rinse skin with water/shower.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P310: Immediately call a POISON CENTER or doctor/physician.

P361: Remove/Take off immediately all contaminated clothing.

P363: Wash contaminated clothing before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting.

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.

Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P235 Keep cool.

P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None known.

SECTION 3: Composition/information on ingredients

Substances / Mixtures



150000001212

General information:

Chemical name	Concentration	Additional identification	Notes
propionic acid	100%	CAS-No.: 79-09-4	#

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

Description of first aid measures

Inhalation: Move to fresh air. If breathing stops, provide artificial respiration. If

breathing is difficult, give oxygen. Get medical attention immediately.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately. In case of irritation from airborne exposure, move to fresh air.

Get medical attention if symptoms persist.

Skin contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.

Ingestion: Call a physician or poison control center immediately. Do NOT induce

vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head

lower than the hips to help prevent aspiration.

Most important symptoms and

effects, both acute and

delayed:

May irritate and cause redness and pain.

Indication of any immediate medical attention and special treatment needed

Hazards: None known.

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards: Flammable liquid and vapor.

Extinguishing media

Suitable extinguishing

media:

Water spray. Dry chemical. Carbon Dioxide. Alcohol foam.

Unsuitable extinguishing

media:

None known.

Special hazards arising from

the substance or mixture:

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent

buildup of vapors or gases to explosive concentrations.

Advice for firefighters

[#] This substance has workplace exposure limit(s).



150000001212

Special fire fighting

Water may be ineffective in fighting the fire. Use water spray to keep fire-

exposed containers cool.

Special protective

procedures:

Self-contained breathing apparatus and full protective clothing must be equipment for fire-fighters:

worn in case of fire.

SECTION 6: Accidental release measures

Personal precautions,

protective equipment and emergency procedures:

Wear appropriate personal protective equipment.

Environmental precautions: Avoid release to the environment.

Methods and material for containment and cleaning

up:

Eliminate sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large Spillages: Prevent runoff from entering drains, sewers, or streams. Dike for later

disposal.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

SECTION 7: Handling and storage:

Precautions for safe handling: Avoid breathing mists or vapors. Do not get in eyes, on skin, on clothing.

Do not taste or swallow. Use only with adequate ventilation. Wash

thoroughly after handling.

Conditions for safe storage,

including any incompatibilities: Keep container tightly closed and in a well-ventilated place.

Specific end use(s): Industrial chemical.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

Country specific exposure limits have not been established or are not applicable unless listed below.

Chemical name	Туре	Exposure Limit values	Source
propionic acid	TWA	10 ppm	US. ACGIH Threshold Limit Values (01 2010)

Exposure controls

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.



150000001212

Individual protection measures, such as personal protective equipment

General information: Eye bath. Washing facilities. Safety shower.

Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield. Wear

a full-face respirator, if needed.

Skin protection

Hand protection: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.

Other: No data available.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Airpurifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and

safety professional or manufacturer for specific information.

Hygiene measures: Observe good industrial hygiene practices.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical State:

Form:
Color:
Colorless
Odor:
Rancid
Odor Threshold:
Ciquid
Colorless
Rancid
0.16 ppm

pH: No data available.

Melting Point -22 °C Boiling Point: 141 °C

Flash Point: 49 °C (Setaflash Closed Cup)

Evaporation Rate:

Flammability (solid, gas):

Flammability Limit - Upper (%)—:

Flammability Limit - Lower (%)—:

Vapor pressure:

Not determined.

No data available.

No data available.

4.706 hPa (25 °C)

Vapor density (air=1): 2.6 Specific Gravity: 1 (20 °C)

Solubility(ies)

Solubility in Water: Completely Soluble Solubility (other): No data available.



SDSUS / EN / TUS01 Version: 4.0 Revision date: 05/30/2014

Initiator: 0001 / PRD 150000001212

Partition coefficient (n-octanol/water): Pow: 2.1 log Pow: 0.33

Autoignition Temperature: No data available.

Decomposition Temperature: (DTA) No exotherm to 500°C

Dynamic Viscosity:No data available.Kinematic viscosity:1.13 mm2/s (20 °C)Explosive properties:No data available.Oxidizing properties:No data available.

Other information

Minimum ignition temperature: 512.8 °C (ASTM D2155)

SECTION 10: Stability and reactivity

Reactivity: None known.

Chemical stability: Stable

Possibility of hazardous

reactions:

None known.

Conditions to avoid: Heat, sparks, flames.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition

products:

Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: None known.

Ingestion: May cause burns of the gastrointestinal tract if swallowed.

Skin contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

Information on toxicological effects

Acute Toxicity

Oral

Product: Oral LD-50: (Rat): 3,455.1 mg/kg

Dermal

Product: No data available.

Specified substance(s)

Inhalation

Product: LC50 (Rat, Male and Female, 1 h): > 19.7 mg/l

Repeated dose toxicity

Product: NOAEL (Rat(Male and Female), Dermal Study): 264 mg/kg



150000001212

NOAEL (Rat(Male and Female), Oral Study): 620 mg/kg

Skin corrosion/irritation: Corrosive.

Product: (Rabbit, 24 h): Severe

Serious eye damage/eye

irritation:

Corrosive.

Product: (Rabbit, 1 min): Severe

Respiratory or skin

sensitization:

Not a skin sensitizer.

Product: OECD 406: Guinea pig sensitization, (Guinea Pig) - Not a skin sensitizer.

Mutagenicity

In vitro

Product: Salmonella typhimurium assay (Ames test), Bacterial Reverse Mutation Assay:

negative +/- activation

In vivo

Product: No data available.

Specified substance(s)

Carcinogenicity

Product: Based on available data, the classification criteria are not met. Not classified as

hazardous.

Reproductive toxicity

Product: Based on available data, the classification criteria are not met. Not classified as

hazardous. Read-across from a similar material

Specific target organ toxicity - single exposure

Product: No data available.

Specified substance(s)

Specific target organ toxicity - repeated exposure

Product: No data available.

Specified substance(s)

Aspiration hazard

Product: No data available.

Specified substance(s)

Other adverse effects: No data available.

SECTION 12: Ecological information

Toxicity

Acute toxicity

Fish

Product: LC-50 (golden orfe, 96 h): > 1,000 mg/l

Aquatic invertebrates

Product: EC-50 (Water Flea, 48 h): > 500 mg/l



150000001212

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Aquatic invertebrates

Product: No data available.

Specified substance(s)

Toxicity to Aquatic Plants

Product: EC-50 (Scenedesmus subspicatus, 72 h): > 500 mg/l

Persistence and degradability

Biodegradation

Product: 60 % (2 d)

Biological Oxygen Demand:

Product No data available.

Specified substance(s)

Chemical Oxygen Demand:

Product No data available.

Specified substance(s)

BOD/COD ratio

Product No data available.

Specified substance(s)

Bioaccumulative potential

Product: No data available.

Specified substance(s)

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Results of PBT and vPvB

assessment:

No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Waste treatment methods

General information: No data available.



150000001212

Disposal methods:

Dispose of waste and residues in accordance with local authority requirements. Mix with compatible chemical which is less flammable and incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

SECTION 14: Transport information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT

Reportable Quantity: 2,270 kg (propionic acid) Possible Shipping Description(s):

UN 3463 Propionic acid 8 (3) II

IMDG - International Maritime Dangerous Goods Code

Possible Shipping Description(s):

UN 3463 PROPIONIC ACID 8 (3) II

IATA

Possible Shipping Description(s):

UN 3463 Propionic acid 8 (3) II

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS (Canada) Status: controlled

WHMIS (Canada) Hazard Classification: B/3, E

SARA 311-312 Hazard Classification(s):

immediate (acute) health hazard

fire hazard

US EPCRA (SARA Title III) Section 313 - Toxic Chemical List

NONE

OSHA: hazardous

©COPYRIGHT 2014 BY EASTMAN CHEMICAL COMPANY



150000001212

TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

Philippines Inventory (PICCS): This product is listed on the Philippine Inventory or otherwise complies with PICCS.

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

SECTION 16: Other information

HMIS® Hazard Ratings: Health - 3, Flammability - 2, Chemical Reactivity - 0

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Revision Information: Not relevant.

Key literature references and

No data available.

sources for data:

Training information: No data available.

Inventory Status

Korea Existing Chemicals Inventory Yes

(KECI):

Issue date: 05/30/2014

SDS No.:

Disclaimer: This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.