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PL051

Infosafe No™ 1CH5S Issue Date : November 2020 RE-ISSUED by CHEMSUPP

Product Name PROPIONIC ACID

Classified as hazardous

1. Identification

GHS Product

PROPIONIC ACID

Identifier

CHEM-SUPPLY PTY LTD (ABN 19 008 264 211) **Company Name**

Address

38 - 50 Bedford Street GILLMAN

Telephone/Fax

SA 5013 Australia Tel: (08) 8440-2000

Number

Emergency phone

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

number

Other Names

www.chemsupply.com.au E-mail Address

the chemical and restrictions on use

Recommended use of Propionates, antimicrobial agents in baking and dairy products, herbicides, preservative for grains and wood chips, emulsifying agents, solutions for electroplating nickel, pharmaceuticals, artificial fruit flavours, perfume bases, cellulose propionate thermoplastics and laboratory reagent.

> Name Product Code

PROPIONIC ACID LR

Ethylformic acid, Methylacetic acid,

Propanoic acid, Carboxyethane

Other Information

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of Flammable Liquids: Category 3

Skin Corrosion/Irritation: Category 1A the Acute Toxicity - Dermal: Category 3 substance/mixture Acute Toxicity - Oral: Category 4

STOT Single Exposure: Category 3 (respiratory tract irritation)

Signal Word (s)

H226 Flammable liquid and vapour. **Hazard Statement (s)**

H314 Causes severe skin burns and eye damage.

H311 Toxic in contact with skin.

H302 Harmful if swallowed.

H335 May cause respiratory irritation. Flame, Corrosion, Skull and crossbones







Precautionary statement -

Pictogram (s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. Prevention

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.





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P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

 ${\tt P270}$ Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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

protection.

Precautionary

statement - Response P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

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

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

contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

Eyes

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.

Fire

P370+P378 In case of fire: Use CO2, dry chemical or foam for extinction. P403+P235 Store in a well-ventilated place. Keep cool.

Precautionary statement – Storage

age P405 Store locked up.

Precautionary

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

statement-Disposal

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Propionic acid	79-09-4	100 %

4. First-aid measures

Inhalation If inhaled, remo	e from contaminated a:	rea to fresh air immediately. Apply
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artificial respiration if not breathing. If breathing is difficult, give

oxygen. Consult a physician.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of

product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if

effects persist.

Skin Wash affected areas with copious quantities of water immediately. Remove

contaminated clothing and wash before re-use. If persistent irritation

occurs, obtain medical attention.

Eyelids to be held open. Seek immediate medical assistance.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

the patient.

Other Information If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13

1126 from anywhere in Australia.

5. Fire-fighting measures

Hazards from Combustion Products May liberate toxic fumes in fire including oxides of carbon.

Specific Methods Small fire: Use dry chemical, CO2 or water spray.

Large fire: Use foam, fog or water spray. Do not use water jets. Cool containers with flooding quantities of water until well after fire is out.

Avoid getting water inside containers.

Hazchem Code • 3W





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Precautions in connection with Fire

Wear SCBA and chemical-splash suit. Fully encapsulating, gas-tight suit should be worn for maximum protection. Structural fire fighter's uniform is NOT effective for these materials.

6. Accidental release measures

Spills & Disposal

ELIMINATE all ignition sources (no smoking, flares, sparks or flames) within at least 25m - All equipment used when handling the product must be earthed. Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours - Water spray may be used to knock down or divert vapour clouds. Absorb with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect absorbed material and place it into loosely-covered metal or plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Precautions

Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Remove ignition sources

Personal Protection

Wear protective clothing specified for normal operations (see Section 8)

7. Handling and storage

Precautions for Safe Handling Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Take precautionary measures against static discharges. All electrical equipment must be flameproofed. Wash hands and face thoroughly after working with material. Use local exhaust extraction over processing area.

Conditions for safe storage, including any incompatibilities Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers closed at all times. Keep container tightly closed in a dry, well-ventilated place away from direct sunlight. Store at room temperature (15 - 25 $^{\circ}$ C).

Store in a flammable goods storage area.

Corrosiveness

Corrosive to metals such as iron, steel, brass, aluminium, lead and most other

metals.

Storage Regulations

Refer Australian Standard AS 1940-2017 'The storage and handling of flammable and combustible liquids'.

8. Exposure controls/personal protection

 Occupational exposure limit values
 Name
 STEL
 TWA

 mg/m3
 ppm
 mg/m3
 ppm
 Footnote

 Propionic acid
 30
 10

Other Exposure Information

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

Appropriate engineering controls

Provide sufficient ventilation to keep airborne levels below lower explosion limit. Refer to AS 1940-The storage and handling of flammable and combustible liquids and AS 2430 Explosive gas atmospheres for further information concerning ventilation requirements. Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust

Respiratory Protection

ventilation, capturing substances at the source, or other methods. Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.





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The use of a face shield, chemical goggles or safety glasses with side shield **Eye Protection**

protection as appropriate. Must comply with Australian Standards AS 1337 and

be selected and used in accordance with AS 1336.

Wear gloves of impervious material conforming to AS/NZS 2161: Occupational **Hand Protection**

> protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from

> hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.

Personal Protective

Equipment

Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand

or other approved standards.

Safety boots in industrial situations is advisory, foot protection should Footwear

comply with AS 2210, Occupational protective footwear - Guide to selection,

care and use.

Clean clothing or protective clothing should be worn, preferably with an **Body Protection**

apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Recommendation: Good:

Teflon; Fair/Poor: Polyethylene.

9. Physical and chemical properties

Liquid **Form**

Clear, colourless, oily liquid. **Appearance**

Slightly unpleasent irritating odour. Odour

-20 °C **Melting Point** -20.8 °C **Freezing Point** 141 °C **Boiling Point**

Miscible. Can be salted out by the addition of CaCl2 or other salts. Solubility in Water

Solubility in Organic

Solvents

Soluble in alcohol, chloroform and ether.

Specific Gravity

0.99 (@ 20 °C)

2.5 (100 g/l, H2O, 20 °C)

5 hPa @ 20 °C Vapour Pressure

Vapour Density

(Air=1)

2.56

1.02 mPas @ 25 °C Viscosity

Partition Coefficient: log P(o/w): 0.33 (experimentally)

n-octanol/water

54.4 °C (closed cup); 50 °C (open cup). Flash Point

Auto-Ignition

Temperature

Flammable Limits -

Lower

2.1%

485 °C

Flammable Limits -

12%

Upper Molecular Weight

74.08

Refractive index: 1.3862 @ 20 °C Other Information

10. Stability and reactivity

Stable under normal use conditons. **Chemical Stability**





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Incompatible

Oxidising materials, metals and strong bases.

Materials

May liberate toxic fumes in fire including oxides of carbon. Hazardous

Decomposition Products

Vigorous reaction with bases yielding heat and pressure. In contact with Possibility of reactive metals, may produce flammable hydrogen gas. May react violently or hazardous reactions

explosively with oxidising agents.

Hazardous

Will not occur.

Polymerization

11. Toxicological Information

Acute Toxicity - Oral LD50 Oral - Rat - male and female - 3,455.1 mg/kg

(OECD Test Guideline 401)

Acute Toxicity -

LD50 Dermal - Rat - female - 3,235 mg/kg

Dermal

(OECD Test Guideline 402)

Acute Toxicity -

LC50 Inhalation - Rat - male and female - 4 h - > 20 mg/l

(OECD Test Guideline 403)

Inhalation Ingestion

Burns the mucous membranes in the mouth, pharynx, oesophagus, and

gastrointestinal tract. Risk of perforation in the oesophagus and stomach. Symptoms include nausea, vomiting, hematemesis, diarrhoea, hypotension, abdominal pain, dizziness, somnolence, liver and kidney damage, convulsions, coma and death. Aspiration into lungs may cause chemical pneumonitis or

pulmonary edema, which can be fatal.

Inhalation

Material is extremely destructive to tissue of the mucous membranes and upper

respiratory tract. Inhalation burns the respiratory tract, causing inflammation and edema of the larynx and bronchi, chemical pneumonitis, pulmonary edema, and may be fatal. Symptoms of exposure may include burning sensation, coughing, laryngitis, dyspnoea (shortness of breath), headache,

nausea, and vomiting. May cause lung injury.

Skin

Toxic if absorbed through the skin. Causes severe burns. Contact may cause severe irritation, redness, and pain. Prolonged exposures can cause burns, blistering, and tissue destruction. Readily absorbed and harmful if absorbed through skin.

Eye

Contact with vapour and dilute solutions may cause redness, pain, blurred vision, and eye damage. Contact with concentrated solutions can cause corneal burns; damage may be permanent and loss of vision. Risk of blindness.

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information. **Skin Sensitisation**

Germ cell

Not classified based on available information.

mutagenicity Carcinogenicity

Not classified based on available information.

Reproductive **Toxicity**

Not classified based on available information.

Category 3 STOT-single

exposure

STOT-repeated Not classified based on available information.

exposure

Repeated or prolonged skin contact may cause dermatitis. Chronic Effects

Serious eve

H314 Causes serious skin burns and eye damage.

H314 Causes serious skin burns and eye damage.

damage/irritation

H314 Causes serious skin burns and eye damage. Mutagenicity

Respiratory Irritation

H335 May causes respiratory irritation.

Skin corrosion/irritation





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12. Ecological information

Persistence and

Readily biodegradable.

degradability

Do not allow product to enter drains, waterways or sewers. **Environmental**

Protection

13. Disposal considerations

Disposal Considerations Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with

any of the following:

PROPIONIC ACID

Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are

incompatible with food and food packaging in any quantity.

3463 U.N. Number

UN proper shipping

Transport hazard

ΙI

36

class(es)

name

Sub.Risk

Hazchem Code • 3W

Packing Group

IERG Number

15. Regulatory information

Regulatory Information All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations.

listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens,

restricted carcinogens and restricted hazardous chemicals.

Poisons Schedule

S6 Other: S4

Other Information

S6 for >80%, S5 for >30%.

16. Other Information

Literature References

'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'.

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety

Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency

Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe

Work Hazardous Substances'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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reliance on information provided in this data sheet or by our technical

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Empirical Formula & Structural Formula

С2 Н5 СООН

...End Of MSDS...

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