



Infosafe No™	1CH7S	Issue Date : November 2019	RE-ISSUED by CHEMSUPP
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Product Name : **n-BUTYRIC ACID**

Classified as hazardous

1. Identification

GHS Product Identifier	n-BUTYRIC ACID	
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
Recommended use of the chemical and restrictions on use	Synthesis of butyrate ester perfume and flavor ingredients, synthesis of esters in the production of enamels, pharmaceuticals, deliming agent, disinfectants, emulsifiers, sweetening gasoline and laboratory reagent.	
Other Names	<u>Name</u>	<u>Product Code</u>

n-Butanoic acid
n-BUTYRIC ACID LR
Ethylacetic acid
Propylformic acid

BL008

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 the substance/mixture	Skin Corrosion/Irritation: Category 1B
Signal Word (s)	DANGER
Hazard Statement (s)	H314 Causes severe skin burns and eye damage.
Pictogram (s)	Corrosion



Precautionary statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	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. P363 Wash contaminated clothing before reuse. 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up.
Precautionary statement – Storage	



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Precautionary statement – Disposal P501 Dispose of contents/container according to local, state and federal government regulations.

3. Composition/information on ingredients

Chemical Characterization	Liquid				
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	n-Butyric Acid	107-92-6	100 %		

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately medical attention is required.
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	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
First Aid Facilities	Maintain eyewash fountain and drench facilities in work area.
Advice to Doctor	Treat symptomatically as for strong acids.
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	Oxides of carbon.
Specific Methods	Small fire: Use dry chemical, CO2 or water spray. If safe to do so, move undamaged containers from fire area. Large fire: Use dry chemical, CO2, foam or water spray - Do not use water jets. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside containers.
Specific hazards arising from the chemical	May burn but do not ignite readily. Containers may explode when heated. When heated, vapours may form explosive mixtures with air. Contact with metals may evolve flammable hydrogen gas. Runoff may pollute waterways. Fire will produce irritating, poisonous and/or corrosive gases.
Hazchem Code	2X
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.
Other Information	Contain escaping vapours with water.

6. Accidental release measures

Spills & Disposal	ELIMINATE all ignition sources (no smoking, flares, sparks or flames) within at least 15m. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Cover with plastic sheet to prevent spreading. Absorb with earth, sand or other non-combustible material and transfer to container. DO NOT GET WATER INSIDE CONTAINERS. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
Personal Precautions	Avoid inhalation, contact with skin, eyes and clothing. Evacuate the area of all non-essential personnel.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
Environmental Precautions	Prevent from entering into drains, ditches, rivers or the sea.



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7. Handling and storage**Precautions for Safe Handling** Avoid generating and inhaling mist/vapour.**Handling****Conditions for safe storage, including any incompatibilities** Store in well ventilated area. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep container tightly closed and dry. Store at room temperature (15 - 25 °C).**Corrosiveness**

Corrosive to metals such as iron, steel, brass, aluminum and lead.

Storage Regulations

Refer Australian Standard AS 3780 - 1994 'The storage and handling of corrosive substances'.

8. Exposure controls/personal protection**Other Exposure Information**No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m³. All atmospheric contamination should be kept to as low a level as is workable.
. 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**

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. Ventilation: Fume cupboard.

Respiratory Protection

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.

Eye Protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Recommendation: Wear full face shield if splashes or spray deposition are likely to occur.

Hand Protection

Wear gloves of impervious material conforming to AS/NZS 2161: Occupational 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.

Footwear

Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection

Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Recommendation: Resistance for protective clothing: Good: Chlorinated polyethylene (CPE), polyvinyl chloride (PVC).

Hygiene Measures

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties**Form**

Liquid

Appearance

Colourless liquid.

Odour

Penetrating and obnoxious odour.

Melting Point

-8.0 to -5 °C

Boiling Point163.5 °C @ 757 mm Hg
75 °C @ 25 mm Hg**Solubility in Water**

Miscible.

Solubility in Organic Solvents

Miscible in alcohol and ether.

Specific Gravity

0.9583



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pH	2.5 (100 g/l, H ₂ O, 20 °C)
Vapour Pressure	0.84 mm Hg @ 20 °C
Vapour Density (Air=1)	3.0
Odour Threshold	1 ppb - detection; 20 ppb - recognition
Viscosity	1.6 mPa*s
Partition Coefficient: n-octanol/water	log P(o/w): 0.79 (experimentally)
Flash Point	69 °C
Flammability	Combustible.
Auto-Ignition Temperature	452 °C
Flammable Limits - Lower	2.35 vol%
Flammable Limits - Upper	12.3 vol%
Molecular Weight	88.11
Other Information	Refractive index: 1.3981 @ 20 °C

10. Stability and reactivity

Chemical Stability	Stable.
Conditions to Avoid	Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Oxidising materials and strong bases.
Possibility of hazardous reactions	Vigorous reaction may occur with bases yielding heat and pressure. May react violently or explosively with oxidising agents. May react violently or explosively with reactive metals and produce flammable hydrogen gas.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 1500 mg/kg.
Ingestion	Causes burns. Symptoms may include sore throat, abdominal pain, nausea and vomiting. Risk of perforation in the oesophagus and stomach.
Inhalation	Irritating to respiratory system. Symptoms may include nasal irritation, sore throat, coughing and hoarseness. Extreme exposures may cause breathing difficulties and lung edema.
Skin	Harmful by skin contact. Direct contact can cause irritation, redness and pain. Longer exposure may cause burns, blistering and tissue destruction.
Eye	Contact with vapour or dilute solutions can cause redness, pain and blurred vision. Contact with concentrated solutions can cause corneal burns. Damage may be permanent.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Aspiration Hazard	Not classified based on available information.
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis.



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Serious eye damage/irritation	H314 Causes severe skin burns and eye damage.
Mutagenicity	Not classified based on available information.
Skin corrosion/irritation	H314 Causes severe skin burns and eye damage.

12. Ecological information

Persistence and degradability	Biodegradation: >95%/5 d (modified Zahn-Wellens-test). Easily eliminable.
Bioaccumulative Potential	Distribution: log P(o/w): 0.79 (experimental). No bioaccumulation in to be expected (log P(o/w)<1)
Short Summary of Assessment of Environmental Impact	No ecological problems are to be expected when the product is handled and used with due care and attention.
Environmental Protection	Do not allow product to enter drains, waterways or sewers.

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.
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14. Transport information

Transport Information	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: 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.
U.N. Number	2820
UN proper shipping name	BUTYRIC ACID
Transport hazard class(es)	8
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	III
EPG Number	8A1
IERG Number	36

15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled
Hazard Category	Corrosive

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational
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Safety Data Sheet

infosafe
CS: 1.7.2

Page: 6 of 6

Infosafe No™	1CH7S	Issue Date : November 2019	RE-ISSUED by CHEMSUPP
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**Contact
Person/Point**

Environment [NOHSC:1003(1995) 3rd Edition]'.
Paul McCarthy Ph. (08) 8440 2000

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**Empirical Formula &
Structural Formula**

CH₃CH₂CH₂COOH

...End Of MSDS...

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