



chem-supply

Safety Data Sheet

infosafe
CS: 1.7.2

Page: 1 of 5

Infosafe No™	1CHL9	Issue Date : October 2017	RE-ISSUED by CHEMSUPP
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Product Name : **METHYL 4-HYDROXY BENZOATE**

Classified as hazardous

1. Identification

GHS Product Identifier METHYL 4-HYDROXY BENZOATE**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**Recommended use of the chemical and restrictions on use** Antimicrobial agent, inhibition of molds and yeasts and to lesser extent bacteria; as vehicle for ophthalmic solution; food additive (preservative), preservative in cosmetics and some parenteral solutions; in vitro spermicide; in medicaments for pharyngitis and laboratory reagent.**Other Names**

<u>Name</u>	<u>Product Code</u>
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Methyl paraben

Methyl para-hydroxy benzoate

METHYL 4-HYDROXY BENZOATE LR

ML019

METHYL 4-HYDROXY BENZOATE BP

MP019

Additional Information**Other Information**

Use in foods restricted to 0.1%.

A tolerance of zero is established for residues of methylparaben in milk from dairy animals.

EMERGENCY CONTACT NUMBER: +61 08 8440 2000

Business hours: 8:30am to 5:00pm, Monday to Friday.

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 Eye Damage/Irritation: Category 2A**Signal Word (s)** WARNING**Hazard Statement (s)** H319 Causes serious eye irritation.**Pictogram (s)** Exclamation mark**Precautionary statement – Prevention**

P264 Wash thoroughly after handling.

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

Precautionary statement – Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary statement – Disposal

P501 Dispose of contents/container according to local, state and federal regulations.

3. Composition/information on ingredients

Chemical Solid**Characterization**

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Methyl 4-Hydroxybenzoate	99-76-3	98-100 %
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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. Get medical aid if cough or other symptoms appear.
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 area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. Seek medical attention in severe cases, or if irritation develops.
Eye contact	If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelids(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation develops seek medical attention.
First Aid Facilities	Maintain eye wash and normal washroom facilities.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	Irritating and highly toxic gases, smoke and fumes, including carbon monoxide and carbon dioxide.
Specific Methods	Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Specific hazards arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.
Decomposition Temp.	270 - 280 °C
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Personal Protection	Use personal protective equipment listed in Section 8.
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid ingestion and inhalation of dusts. Avoid contact with skin and eyes. Minimize dust and aerosol generation and accumulation. Keep container tightly closed. Provide appropriate exhaust ventilation at places where dust is formed. Use with adequate ventilation. If ingested, seek medical advice immediately and show the container or the label. Wear appropriate protective equipment. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities. Protect against physical damage. Keep away from incompatibles such as oxidizing agents, alkalis. Employ normal measures for preventive fire protection.
Conditions for safe storage, including any incompatibilities	Store in tightly closed containers, in a cool, dry, well-ventilated area away from incompatible substances. Protect against physical damage, direct sunlight and moisture. Store away from heat, sources of ignition, and oxidising agents. Inspect regularly for deficiencies such as damage or leaks.
Corrosiveness	Non-corrosive in presence of glass, of steel, of stainless steel (304), of stainless steel (316).
Storage Temperatures	Store at room temperature (15 to 25 °C recommended).

8. Exposure controls/personal protection



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Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m ³ for dusts when limits have not otherwise been established.
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.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
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.
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: PVC gloves. Plastic or rubber gloves.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Body Protection	Clean clothing or protective clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
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	Solid
Appearance	Colourless crystals or white, crystalline powder or needles.
Odour	Odourless or faint characteristic odour.
Decomposition Temperature	270 - 280 °C
Melting Point	125-128 °C; 131 °C.
Boiling Point	270-280 °C (decomposition)
Solubility in Water	Slightly soluble (0.25% (wt/wt) @ 20 °C; 0.30% (wt/wt) @ 25 °C).
Solubility in Organic Solvents	Very soluble in alcohol; easily soluble in diethyl ether, acetone; soluble in benzene; slightly soluble in carbon tetrachloride and glycerol (1 g/ 70 ml of warm glycerol).
Specific Gravity	1.36
Solubility in Fat	Soluble in oils (1 g/ 40 ml of warm oil) and fats.
pH	~ 5.8 (saturated solution)
Vapour Pressure	Negligible.
Evaporation Rate	Negligible.
Volatile Component	0 %vol @ 21 °C
Partition Coefficient: n-octanol/water	Log P (o/w): 1.96
Density	Bulk Density: ~ 0.3-0.4.
Flammability	Combustible.
Auto-Ignition Temperature	> 600 °C
Explosion Properties	Finely dispersed dust in air in sufficient concentrations, and on exposure to an ignition source is a potential dust explosion hazard.
Molecular Weight	152.15
Other Information	Taste: Slight burning taste.

10. Stability and reactivity

Chemical Stability	Stable under normal temperatures, pressures and conditions of handling and storage.
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Safety Data Sheet

infosafe
CS: 1.7.2

Page: 4 of 5

Infosafe No™	1CHL9	Issue Date : October 2017	RE-ISSUED by CHEMSUPP
--------------	-------	---------------------------	-----------------------

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Conditions to Avoid	Heat, flames, ignition sources, dust generation and incompatible materials.
Incompatible Materials	Strong oxidising agents and strong bases.
Hazardous Decomposition Products	Irritating and highly toxic gases, acrid smoke and fumes, including carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Reactive with oxidizing agents, alkalis.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral LD50 (rat): 2100 mg/kg

Ingestion	May cause gastrointestinal tract irritation. Systemic toxicity appears to be low. Large doses may produce gastric upset, stomach discomfort, nausea and diarrhoea. May affect behaviour/nervous system (ataxia, somnolence, flaccid paralysis without anesthesia).
Inhalation	Inhalation of dust may result in respiratory irritation, sore throat, coughing and difficult breathing.
Skin	Skin contact may cause irritation, resulting in redness and itching. Prolonged or repeated skin contact may cause severe and intractable sensitization (contact) dermatitis, in sensitive individuals, an allergic reaction, which becomes evident upon re-exposure to this material. Paraben sensitization may occur especially when substance is applied to broken or damaged skin.
Eye	May cause moderate eye irritation, redness, pain, tearing and swelling of eyelids from allergic contact dermatitis.
Carcinogenicity	Not listed in the IARC Monographs.
Chronic Effects	Repeated exposure may cause sensitization dermatitis.

12. Ecological information

Ecological Information	No ecological problems are to be expected when the product is handled and used with due care and attention.
Mobility	Distribution: log P(o/w): 1.96.
Bioaccumulative Potential	No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3).
Environmental Protection	Do not allow to enter waters, waste water, or soil!
Acute Toxicity - Fish	Leuciscus idus LC0: 50 - 100 mg/l, 96 h.

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.
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14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	<p>'Standard for the Uniform Scheduling of Medicines and Poisons No. 15', Commonwealth of Australia, November 2016.</p> <p>Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.</p> <p>National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.</p> <p>Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.</p>
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Safety Data Sheet

infosafe
CS: 1.7.2

Page: 5 of 5

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**Contact
Person/Point**

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 Substances 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 Environment [NOHSC:1003(1995) 3rd Edition]'.

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

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**Empirical Formula &
Structural Formula**Empirical Formula: C₈H₈O₃.Structural Formula: HOC₆H₄CO₂CH₃.

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