



Infosafe No™	1CH4I	Issue Date : October 2019	RE-ISSUED by CHEMSUPP
--------------	-------	---------------------------	-----------------------

Product Name : **METHYL ORANGE**

Classified as hazardous

1. Identification

GHS Product Identifier	METHYL ORANGE	
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	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
Recommended use of the chemical and restrictions on use	Manufacture of dyes (in the textile industry), estimating alkalinity of waters and pH indicator: pH 3.2 (Red) to pH 4.4 (Yellow). Employed for titrating most mineral acids and strong bases, but not for organic acids, analytical chemistry, laboratory reagent (alkali salts).	
Other Names	<u>Name</u>	<u>Product Code</u>
	METHYL ORANGE LR	ML052
	METHYL ORANGE AR	MA052
	C.I. 13025, Orange III, Gold orange, Helianthine B, Acid orange 52, Orange acid 52, Tropaeolin D, Sodium p-dimethylaminoazobenzenesulfonate, p-Dimethylaminoazobenzenesulfonic acid sodium salt, Methyl orange sodium salt, Helianthin	
Additional Information	To prepare a solution for use as pH indicator: -dissolve 0.04 g in 100 ml water; or -dissolve 0.04 g in 100 ml ethanol (20%).	
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	Acute Toxicity - Oral: Category 3
Signal Word (s)	DANGER
Hazard Statement (s)	H301 Toxic if swallowed.
Pictogram (s)	Skull and crossbones



Precautionary statement – Prevention	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
Precautionary statement – Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth.
Precautionary statement – Storage	P405 Store locked up.



Infosafe No™	1CH4I	Issue Date : October 2019	RE-ISSUED by CHEMSUPP
--------------	-------	---------------------------	-----------------------

Product Name : **METHYL ORANGE**

Classified as hazardous

Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical Characterization	Solid				
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Methyl orange	547-58-0	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 obtain 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 immediate medical advice.
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. Seek medical attention.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	Sulfoxides, nitrogen oxides, carbon oxides.
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 water spray, fog or foam - Do not use water jets. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.
Specific hazards arising from the chemical	Material may burn but not ignite readily. 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

Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
Environmental Precautions	Avoid release to the environment.

7. Handling and storage

Precautions for Safe Handling	Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid generation or accumulation of dusts. Avoid generating and inhaling dust.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry, well-ventilated place away from direct sunlight.



Infosafe No™	1CH4I	Issue Date : October 2019	RE-ISSUED by CHEMSUPP
--------------	-------	---------------------------	-----------------------

Product Name : **METHYL ORANGE**

Classified as hazardous

Storage Regulations Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.**Storage Temperatures** Store at room temperature (15 to 25 °C recommended).**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.**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. When making up indicator solution, do so in the fume cupboard.**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** 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. Recommendation: rubber or plastic gloves.**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.**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** Orange powder.**Odour** Weak characteristic odour or odourless.**Melting Point** > 300 °C**Solubility in Water** Partically insoluble.**Solubility in Organic Solvents** Practically insoluble in alcohol.**Specific Gravity** ~ 0.2-0.4 (bulk)**pH** ~6.5 (5 g/l, H₂O, 20 °C)**Partition Coefficient: n-octanol/water** Log P (o/w): -0.66**Flammability** Combustible.**Molecular Weight** 327.34**10. Stability and reactivity****Chemical Stability** Stable under normal use conditons.**Conditions to Avoid** Strong heating. Incompatibles.



Infosafe No™	1CH4I	Issue Date : October 2019	RE-ISSUED by CHEMSUPP
--------------	-------	---------------------------	-----------------------

Product Name : **METHYL ORANGE**

Classified as hazardous

Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Sulfoxides, nitrogen oxides, carbon oxides.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 60 mg/kg.
Ingestion	Toxic if swallowed.
Inhalation	May cause respiratory tract irritation.
Skin	May cause skin irritation.
Eye	May cause irritation.
Carcinogenicity	The following applies to azo dyes in general: azo dyes containing a carcinogenic aryl amine component are suspected of possessing a carcinogenic potential. It is therefore recommended that the substance be handled as if it possessed the properties of the basic amine.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Environmental Fate	Behaviour in environmental compartments: Distribution: log P(o/w): -0.66
Bioaccumulative Potential	No bioaccumulation is to be expected (log P(o/w) <1.0).

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 6 Toxic and Infectious Substances are incompatible in a placard load with any of the following: - Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, and are incompatible with food packaging in any quantity.
U.N. Number	3143
UN proper shipping name	DYE, SOLID, TOXIC, N.O.S. - (Sodium 4-(4-dimethylaminophenylazo)benzenesulphonate)
Transport hazard class(es)	6.1
Hazchem Code	2X
Packaging Method	3.8.6.1
Packing Group	III
EPG Number	6B3
IERG Number	34

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

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
------------------------------	---



chem-supply

Safety Data Sheet

infosafe
CS: 1.7.2

Page: 5 of 5

Infosafe No™	1CH4I	Issue Date : October 2019	RE-ISSUED by CHEMSUPP
--------------	-------	---------------------------	-----------------------

Product Name : **METHYL ORANGE**

Classified as hazardous

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

Contact

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

Person/Point

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Empirical Formula & Structural Formula

C14H14N3NaO3S

...End Of MSDS...

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.