



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : M 41309
Product Name : **METHYL ORANGE**

Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483

Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : 4-Dimethylaminoazobenzene-4'-sulfonic acid sodium salt

CAS-No : 547-58-0 Ec-Index No. : -----

Molar Mass : 327.34 EC-No. : 208-925-3

Molecular Formula : $C_{14}H_{14} N_3 Na O_3 S$

3. **HAZARDS IDENTIFICATION** : Toxic if swallowed.

4. **FIRST AID MEASURES** : After inhalation : fresh air.
After skin contact : wash off with plenty
of water . Remove contaminated clothing
After eye contact : rinse out with plenty of water with eyelids
held open.
After swallowing : make victim drink plenty of water, Induce
vomiting , summon doctor .



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5. FIRE-FIGHTING MEASURES: Suitable extinguishing media : water, foam.

Special risks : Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in the event of fire : nitrogen oxides, sulphur oxides

Other Information : Contain escaping vapours with water. Prevent fire – fighting water from entering surface water or ground water.

Special protective equipment for fire fighting : Do not stay in dangerous zone without suitable. Chemical protection clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures:

Avoid substance contact, do not inhale dusts.

Procedures for cleaning / absorption : Take up dry. Forward for disposal. Clean up affected area.

Environmental protection measures:

Do not allow entering sewage system. Risk of explosion.



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7. HANDLING AND STORAGE: Handling : No further requirements.

Storage : Tightly closed . Dry. In a well ventilated place.

At +5⁰C to +30⁰C. Accessible only for authorised persons .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : required when dusts are generated .

Eye protection : required

Hand protection : required.

Protective clothing should be selected for the working place depending on concentration and quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene : Change contaminated clothing. Application of skin protective barrier cream recommended. Wash hands after working with substance.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	Orange
Odour	:	Weak characteristic odour
Melting temperature	:	Not available
Boiling temperature	:	Not available
PHvalue at 5g/l H ₂ O(20 ⁰ C)	:	~6.5
Ignition temperature	:	Not available
Flash point	:	Not available
Explosion limits lower	:	Not available
Upper	:	Not available
Relative vapour density	:	Not available
Density (20 ⁰ C)	:	Not available
Bulk density	:	~200-400 Kg/m ³
Solubility in water (20 ⁰ C)	:	~5g/l
Ethanol (20 ⁰ C)	:	~1g/l

10. STABILITY AND REACTIVITY: Conditions to be avoided : No information available.

Substance to be avoided : No information available.

Hazardous decomposition products :

No information available



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11. TOXICOLOGICAL INFORMATION: Acute Toxicity : LD₅₀(oral,rat):60 mg/kg

Further toxicological information :

Property that cannot be excluded on the basis of structure effect considerations:

After eye contact: irritations ,risk of blindness

After swallowing: We have no description of any toxic symptoms.

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. Further hazardous properties cannot be excluded.

12. ECOLOGICAL INFORMATION

Ecotoxic effects : Quantitative data on the ecological effect of this product are not available.

Further ecological data

Do not allow to enter waters, waste water, or soil



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13. DISPOSAL METHOD

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Disposal in compliance with official regulations. Handle contaminated packaging as in the same way as the substance itself. If not officially specified differently , non-contaminated packaging may be treated like household waste or recycled .

14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class: 6.1 Number and letter:25c

ADR/RID class : 6.1 Number and letter:25

Name of material : Methyl orange

River transport AND/ADNR: Not examined

Sea transport IMDG : IMDG class:6.1 UN –No.:2811 Packaging group: III

Ems : 6.1-04 MFAG: 4.2

Correct technical name:

TOXIC SOLID,ORGANIC,N.O.S.(METHYL ORANGE)

Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class:6.1 UN/ID-No.:2811 Packaging group: III

Correct technical name:

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15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : T Toxic
R- Phrases : 25 Toxic if swallowed
S-phrases : 7-45 Wear suitable gloves. In case of accident or
if you feel unwell, seek medical advice immediately

Water pollution class : 2 (polluting substance)

16. OTHER INFORMATION

Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
