

SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Revision Date Dec 16, 2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name METHYL ORANGE INDICATOR

CAS-No. 547-58-0 Product code AR1522

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Chemical for analysis and production.

1.3 Details of the manufacturer of the safety data sheet

Manufacturer RCI LABSCAN LIMITED.

24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand

Telephone number (662) 613-7911-4 Fax number (662) 613-7915

1.4 Emergency Telephone Number

Emergency phone (662) 613-7911-4

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 3), H301

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

Precautionary statement(s)

P264 Wash hand thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301 + P316 IF SWALLOWED: Get emergency medical help immediately.

P330 Rinse mouth.

2.3 Other hazards None

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SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms 4-Dimethylaminoazobenzene-4'-sulfonic acid sodium salt, Gold orange, Helianthine,

4-(4-(Dimethylamino)phenylazo)benzenesulfonic acid sodium salt, Orange III, Acid

Orange 52.

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight %

547-58-0 208-925-3 - C₁₄H₁₄N₃NaO₃S 327.34 g/mol -

Hazardous ingredients according to Regulation (EC) No 1272/2008

C	Component	Concentration	Classification	
Methyl orange				
CAS-No	547-58-0	-	Acute toxicity, Oral (Category 3), H301	
EC-No	208-925-3			
EC-Index-No -				

For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Move to fresh air in case of accidental inhalation of dust.

Skin contact Remove contaminated clothing and wash affected skin with soap and water.

15 minutes. Obtain medical attention.

Ingestion Rinse mouth. After swallowing make victim drink water (two glasses at the most), call in

physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and section 11

4.3 Indication of any immediate medical attention and special treatment needed

Induce vomiting (only in person who are wide awake and fully conscious), Administer: Activate charcoal 20-40 g in 10% slurry.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing with carbon dioxide, dry chemical, foam or water spray.

5.2 Special hazards arising from the substance or mixture

Combustible. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: carbon oxides, nitrogen oxides, nitrous gases, sulfur oxides, sodium oxides.

5.3 Advice for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Avoid contact with skin and wear suitable protective clothing.

5.4 Further information

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dusts; do not inhale dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protective equipment see **Section 8**.

6.2 Environmental precautions

Do not allow to enter drinking water and sewerage system.

6.3 Methods and materials for containment and cleaning up

Carefully sweep up, gather and remove. Avoid generation of dusts. Keep in suitable, closed containers for disposal. Clean up affected area.

6.4 Reference to other sections

For disposal see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of good ventilation in the working area. Do not leave container open. Avoid spillage. Avoid rising dust.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water, moisture and incompatible materials.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

The product should only be used in ventilation hoods and fans.

Individual protection measures (Personal protective equipment, PPE) Eye/face protection

Goggles giving complete protection to eyes.

Skin protection

Chemical resistant apron / corrosive protective clothing, heavy duty work shoes.

Handle with gloves

- Full contact wears gloves from nitrile rubber material.
- Splash contact wears gloves from nitrile rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Required when dusts are generated filter P2 (EN 143) or use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

Prevent liquid entering sewers, basements and workpits.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid

Color Orange-yellow

Odour Weak characteristic odor

Odour Threshold Not Available

pH ~6.5 at 5 g/l at 20°C

Melting point/range >300 °C
Boiling point/range Not Available
Flash point Not Available
Evaporation rate Not Available
Flammability (solid, gas) Not Available
Explosion limits: lower Not Available
upper Not Available

Vapor Pressure Not Available Relative Vapor Density Not Available Density Not Available Bulk density: ~200-400 kg/m3 ~5 g/l at 20°C Water solubility Partition coefficient (n-octanol/water) log Pow: -0.66 Auto-Ignition temperature Not Available Not Available **Decomposition Temperature** Viscosity Not Available Explosive properties Not Explosive

Oxidizing properties The substance or mixture is not classified as oxidizing.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not Available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

The substance can react dangerously with strong oxidizing agent.

The reaction with nitrates, nitrous acid and nitrites are release of nitrosamines.

10.4 Conditions to avoid

Not Available

10.5 Incompatible materials

Strong oxidizing agent

10.6 Hazardous decomposition products

Carbon oxides, nitrogen oxides, nitrous gases, sulfur oxides, sodium oxides (Hazardous decomposition products from under fire condition).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD₅₀ (oral, rat): 60 mg/kg.

Acute oral toxicity

Not Available

Acute inhalation toxicity

Not Available

Skin corrosion/irritation

Not Available

Serious eye damage/eye irritation

Slight irritations

Respiratory or skin sensitization

Not Available

Germ cell mutagenicity

Not Available

Carcinogenicity

Not Available

Reproductive toxicity

Not Available

Teratogenicity

Not Available

Specific target organ toxicity (STOT) - single exposure

Not Available

Specific target organ toxicity (STOT) - repeated exposure

Not Available

Aspiration hazard

Not Available

Further information

The product should be handled with the care usual when dealing with chemicals.

SECTION 12: Ecological information

12.1 Toxicity

Not Available

12.2 Persistence and degradability

Biodegradability Method for the determination of biodegradability is not applicable to

inorganic substance.

12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water) log Pow: -0.66

No bioaccumulation is to be expected (log Pow<1).

12.4 Mobility in soil

Not Available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and

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toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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 law 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 or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Contaminated packaging

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

SECTION 14: Transport information

Land Transport (ADR/RID)

UN Number 3143

UN proper shipping name DYE, SOLID, TOXIC, N.O.S. (METHYL ORANGE)

Transport hazard class(es) 6.1
Packing group III
Environmental hazards No
Special precautions for user Yes

Sea transport (IMDG)

UN Number 3143

UN proper shipping name DYE, SOLID, TOXIC, N.O.S. (METHYL ORANGE)

Transport hazard class(es) 6.1
Packing group III
Marine pollutant No
Special precautions for user Yes
EmS F-A S-A

Air transport (IATA)

UN Number 3143

UN proper shipping name DYE, SOLID, TOXIC, N.O.S. (METHYL ORANGE)

Transport hazard class(es) 6.1
Packing group III
Environmental hazards No
Special precautions for user No

River transport (AND/ADNR)

(Not examined)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixtureNot Available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Recommended restrictions

Take notice of labels and safety data sheets for the working.

Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

Further information

Contact to RCI Labscan Limited.

Revision Date

16/12/2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

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