

## **⊢⊑** Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

Issue date:13/07/2020 Revision date: 13/07/2025 : Version: 1.0

## **SECTION 1: Identification**

1.1. Product identifier

Trade name : METHYL ORANGE

IUPAC name : sodium;4-[[4-(dimethylamino)phenyl]diazenyl]benzenesulfonate

EC-No. : 208-925-3
CAS-No. : 547-58-0
UN-No. (ADR) : 3143
Product code : 113150xxx
Formula : C14H14N3NaO3S

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

Recommended uses and restrictions : For laboratory use only

### 1.3. Supplier's details

Labchem (Pty)Ltd

6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za

#### 1.4. Emergency telephone number

Emergency number : +27 11 452 1116

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### **Classification according to the United Nations GHS**

Acute toxicity (oral), Category 3 H301

Full text of H statements : see section 16

### 2.2. Label elements

#### Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



GHS06

Signal word (GHS-ZA) : Danger

Hazard statements (GHS-ZA) : H301 - Toxic if swallowed.

Precautionary statements (GHS-ZA) : P264 - Wash hands, forearms and face thoroughly after handling.

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

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth. P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Adverse physicochemical, human health and

environmental effects

: Toxic if swallowed.

### **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

IUPAC name : sodium;4-[[4-(dimethylamino)phenyl]diazenyl]benzenesulfonate

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
methyl orange (Main constituent)	(CAS-No.) 547-58-0	≥ 97	Acute Tox. 3 (Oral), H301

Full text of H-statements: see section 16

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#### 3.2. Mixtures

Not applicable

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

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According to SANS 10234:2019 and SANS 11014:2010

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Dust production: dust mask with filter type P1

### Personal protective equipment symbol(s):











### 8.4. Exposure limit values for the other components

No additional information available

### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

: No data available Appearance Molecular mass : 327.34 g/mol Colour : No data available Odour : No data available Odour threshold No data available No data available No data available pH solution Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point No data available : Not applicable Freezing point **Boiling point** : No data available Flash point Not applicable Auto-ignition temperature Not applicable Decomposition temperature No data available Flammability (solid, gas) : Non flammable. : No data available Vapour pressure Vapour pressure at 50 °C No data available Relative vapour density at 20 °C : No data available Relative density : No data available Relative density of saturated gas/air mixture : No data available

Relative gas density No data available Solubility No data available Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic Explosive properties : No data available : No data available Oxidising properties **Explosive limits** : Not applicable Lower explosive limit (LEL) : No data available Upper explosive limit (UEL) : No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Density

The product is non-reactive under normal conditions of use, storage and transport.

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: No data available

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According to SANS 10234:2019 and SANS 11014:2010

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) Toxic if swallowed. Acute toxicity (dermal) Not classified Acute toxicity (inhalation) : Not classified Skin corrosion/irritation : Not classified : Not classified Serious eye damage/irritation Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified : Not classified Reproductive toxicity Not classified STOT-single exposure STOT-repeated exposure : Not classified Aspiration hazard : Not classified

### SECTION 12: Ecological information

## 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

### 12.2. Persistence and degradability

ME	THYL (	ORANGE	(547-58-0)	
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Persistence and degradability No additional information available

### 12.3. Bioaccumulative potential

### METHYL ORANGE (547-58-0)

Bioaccumulative potential No additional information available

## 12.4. Mobility in soil

### METHYL ORANGE (547-58-0)

Mobility in soil No additional information available

#### 12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### **SECTION 14: Transport information**

In accordance with SANS / IMDG / IATA

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According to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA			
14.1. UN number					
3143	3143	3143			
14.2. Proper Shipping Name					
DYE, SOLID, TOXIC, N.O.S.	DYE, SOLID, TOXIC, N.O.S.	Dye, solid, toxic, n.o.s.			
14.3. Transport hazard class(es)					
6.1	6.1	6.1			
6	6	Not applicable			
14.4. Packing group					
III	III	III			
14.5. Environmental hazards					
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No			
	:				
No supplementary information available					

#### 14.6. Special precautions for user

#### - SANS

Special provisions (SANS) : 223, 274 Limited quantities (SANS) : 5 kg Limited quantities (SANS) : 5 kg

Packagings, large packagings and IBCs

Packing instructions (SANS)

: P002, IBC08, LP02

Packagings, large packagings and IBCs Special : B3

packing instructions (SANS)

Portable tank and bulk containers instructions

(SANS)

Portable tank and bulk container special : TP33

provisions (SANS)

### - IMDG

Special provisions (IMDG) : 223, 274 Limited quantities (IMDG) : 5 kg Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P002, LP02 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B3 Tank instructions (IMDG) : T1 Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE EmS-No. (Spillage) : S-A - SPILLAGE SCHEDULE Alfa - TOXIC SUBSTANCES

Stowage category (IMDG)

Properties and observations (IMDG) : A wide range of toxic solids. Toxic if swallowed, by skin contact or by inhalation.

### - IATA

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y645 PCA limited quantity max net quantity (IATA) : 10kg PCA packing instructions (IATA) : 670 PCA max net quantity (IATA) : 100kg CAO packing instructions (IATA) : 677 CAO max net quantity (IATA) : 200kg Special provisions (IATA) : A3, A5 ERG code (IATA) : 6L

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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According to SANS 10234:2019 and SANS 11014:2010

### **SECTION 15: Regulatory information**

Safety, health, and environmental national regulations specific for the product

: SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS Regulatory reference

10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.

**SECTION 16: Other information** 

Issue date : 13/07/2020 Revision date : 13/07/2025

Full text of H-statements:

H301 Toxic if swallowed.

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.

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