# Methyl Orange, Sodium Salt



Section 1

## **Product Description**

**Product Name:** Methyl Orange, Sodium Salt Science education applications

Synonyms: 4-((4-(Dimethylamino)phenyl)azo)benzenesulfonic Acid, Sodium Salt, CI Acid Orange 52, CI 13025

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

### **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER** 





Toxic if swallowed. May cause genetic defects.

**GHS Classification:** 

Germ Cell Mutagenicity Category 1B, Acute Toxicity - Oral Category 3

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

### **Section 3**

# **Composition / Information on Ingredients**

 Chemical Name
 CAS #
 %

 Methyl Orange, Sodium Salt
 547-58-0
 100

#### Section 4

#### First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of

water

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### Section 5

# Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products. **Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Nitrogen containing gases, Sulfur Oxides

### Section 6

## **Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Avoid the generation of dusts during clean-up.

**Methods for Clean-up** 

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## **Section 7**

## **Handling and Storage**

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Wear protective

gloves/protective clothing/eye protection/face protection. Avoid contact with clothing.

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** Blue - Toxic. Store separately in a secured area.

### Section 8

### **Protection Information**

ACGIH OSHA PEL
(STEL) (TWA) (STEL)

<u>Chemical Name</u> Methyl Orange, Sodium Salt (TWA) N/A

(STEL) N/A (TWA) N/A

(STEL) N/A

**Control Parameters** 

**Engineering Measures:** 

No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort. Lab coat, apron, eye wash, safety shower.

Personal Protective Equipment (PPE):

**Respiratory Protection:** 

Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**Skin Protection:** 

**Eve Protection:** 

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work

Gloves: No information available

#### Section 9

## **Physical Data**

Formula: C14H14N3O3SNa Molecular Weight: 327.33

Appearance: Orange to Yellow Crystalline Solid

Odor: No data available

Odor Threshold: No data available

**pH**: No data available **Melting Point**: > 300 C

**Boiling Point:** No data available **Flash Point:** No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: Slightly Soluble Log Pow (calculated): -0.66 (est)

**Autoignition Temperature:** No data available **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

#### Section 10

# **Reactivity Data**

**Reactivity:** Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Sulfur Oxides, Nitrogen containing gases, Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): No data available Delayed Effects: No data available

**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Methyl Orange, Sodium Salt547-58-0Oral LD50 Rat 60Not determinedNot determined

mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAMethyl Orange, Sodium Salt547-58-0Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** Evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: No data available Chronic: No data available

Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

**Mobility:** This material is expected to have moderate mobility in soil. It absorbs to most soil types.

**Persistence:** Dissolved into water

**Bioaccumulation:** Bioconcentration is not expected to occur.

**Degradability:** Biodegrades at a moderate rate.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Methyl Orange, Sodium Salt 547-58-0

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN 2811 UN 2811

Toxic Solids Organic, N.O.S.

(Methyl Orange, Sodium Salt)

Toxic Solids Organic, N.O.S.

(Methyl Orange, Sodium Salt)

Division 6.1 Division 6.1

Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Methyl Orange, Sodium Salt 547-58-0 No No No No No No

California Prop 65: No California Proposition 65 ingredients

Section 16 Additional Information

Revised: 03/12/2025 Replaces: 04/12/2024 Printed: 03-13-2025

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

**ACGIH** American Conference of Governmental NTP National Toxicology Program Industrial Hygienists **OSHA** Occupational Safety and Health Administration CAS Chemical Abstract Service Number Permissible Exposure Limit PEL **CERCLA** Comprehensive Environmental Response, Parts per million ppm Resource Conservation and Recovery Act Compensation, and Liability Act **RCRA** DOT U.S. Department of Transportation Superfund Amendments and Reauthorization Act SARA

IARC International Agency for Research on Cancer TLV Threshold Limit Value

N/A Not Available TSCA Toxic Substances Control Act

IDLH Immediately dangerous to life and health