

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)



spectrum®

Revision date 28-November-2024

Revision Number 3

1. Identification

Product identifier

Product Name METHYL ORANGE, REAGENT, ACS

Other means of identification

Product Code(s) ME160

UN number or ID number UN3143

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

Spectrum Chemical Mfg. Corp.
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

Acute toxicity - Oral

Category 3

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements



Danger

Hazard statements

Toxic if swallowed.

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.

Precautionary Statements - Response

Specific treatment (see .? on this label).
IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Rinse mouth.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other information

No information available.

3. Composition/information on ingredients

Substance

| Chemical name | CAS No. | Weight-% |
|---------------|----------|----------|
| Methyl Orange | 547-58-0 | 100 |

4. First-aid measures

Description of first aid measures

| | |
|-----------------------|---|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | Wash skin with soap and water. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention. |

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical No information available.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms Avoid dust formation Remove all sources of ignition All equipment used when handling the product must be grounded Keep away from incompatible materials

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Incompatible Materials: Oxidizing agents

8. Exposure controls/personal protection

Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

Hand protection Appropriate hand protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

Skin and body protection Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

Respiratory protection Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|----------------|--------------------------|
| Physical state | Solid |
| Appearance | Powder |
| Color | Orange; Yellow |
| Odor | Odorless |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|-------------------|-------------------------|
| pH | No data available | None known |
| pH (as aqueous solution) | | None known |
| Melting point / freezing point | > 300 °C / 572 °F | None known |
| Initial boiling point and boiling range | No data available | None known |
| Flash point | No data available | None known |
| Evaporation rate | no data available | None known |
| Flammability | no data available | None known |
| Flammability Limit in Air | | None known |

| | | |
|--|---|------------|
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapor pressure | No data available | None known |
| Relative vapor density | No data available | None known |
| Relative density | no data available | None known |
| Water solubility | Partially soluble in hot water Very slightly soluble in cold water | None known |
| Solubility(ies) | Insoluble in diethyl ether Practically insoluble in alcohol Soluble in pyridine | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | | None known |
| Kinematic viscosity | no data available | None known |
| Dynamic viscosity | No data available | None known |
| Other information | | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |
| Softening point | No information available | |
| Molecular weight | 327.33 | |
| VOC content | No information available | |
| Liquid Density | No information available | |
| Bulk density | No information available | |

10. Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | No information available. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Conditions to avoid | None known based on information supplied. |
| Incompatible materials | None known based on information supplied. |
| Hazardous decomposition products | Spontaneous polymerisation. |

11. Toxicological information

Information on likely routes of exposure

Product Information

| | |
|--------------|--|
| Inhalation | Specific test data for the substance or mixture is not available. |
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components). |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

Acute toxicity No information available.

Numerical measures of toxicity No information available

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------------|--------------------|-------------|-----------------|
| Methyl Orange 547-58-0 | = 60 mg/kg (Rat) | - | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

| | |
|--|---|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging | Do not reuse empty containers. |

14. Transport information**DOT**

| | |
|--|--|
| UN number or ID number | UN3143 |
| Proper shipping name | Dyes, solid, toxic, n.o.s. |
| Transport hazard class(es) | 6.1 |
| Special Provisions | III |
| Special Provisions | IB8, IP3, T1, TP33 |
| DOT Marine Pollutant | NP |
| Description | UN3143, Dyes, solid, toxic, n.o.s., 6.1, III |
| Emergency Response Guide Number | 151 |

TDG

| | |
|-----------------------------------|--|
| UN/ID no. | UN3143 |
| Proper shipping name | Dye intermediate, solid, toxic, n.o.s. |
| Transport hazard class(es) | 6.1 |
| Packing Group | III |
| Special Provisions | 16 |
| Description | UN3143, Dye intermediate, solid, toxic, n.o.s., 6.1, III |

MEX

| | |
|-----------------------------------|---|
| UN-No | UN3143 |
| Proper Shipping Name | Dye, solid, toxic, n.o.s. |
| Transport hazard class(es) | 6.1 |
| Packing Group | III |
| Description | UN3143, Dye, solid, toxic, n.o.s., 6.1, III |
| Special Provisions | 223, 274 |

ICAO (air)

| | |
|-----------------------------------|--------|
| UN/ID no. | UN3143 |
| Transport hazard class(es) | 6.1 |
| Packing Group | III |
| Special Provisions | A3, A5 |

IATA

| | |
|-----------------------------------|--------|
| UN number or ID number | UN3143 |
| Transport hazard class(es) | 6.1 |
| Packing group | III |
| Special Provisions | A3, A5 |
| ERG Code | 6L |

IMDG

| | |
|-----------------------------------|----------|
| UN number or ID number | UN3143 |
| Transport hazard class(es) | 6.1 |
| Packing group | III F-A |
| Special Provisions | 223, 274 |

ADR

| | |
|-------------------------------|---------------------------|
| UN number or ID number | UN3143 |
| Proper shipping name | Dye, solid, toxic, n.o.s. |

| | |
|-----------------------------------|--|
| Transport hazard class(es) | 6.1 |
| Packing group | III |
| Special Provisions | 274 |
| Description | UN3143, Dye, solid, toxic, n.o.s., 6.1, III, (E) |

RID

| | |
|-----------------------------------|---|
| UN number or ID number | UN3143 |
| Proper shipping name | DYE, SOLID, TOXIC, N.O.S. |
| Transport hazard class(es) | 6.1 |
| Packing group | III |
| Special Provisions | 274 |
| Description | UN3143, DYE, SOLID, TOXIC, N.O.S., 6.1, III |

15. Regulatory information

International Inventories

| | |
|-------------|----------|
| TSCA | Complies |
|-------------|----------|

| | |
|----------------------|---|
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | This product complies with ENCS: |
| IECSC | This product complies with China: |
| KECL | Complies |
| PICCS | Complies |
| AIIC | All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS). |
| NZIoC | Does not comply |
| TCSI | Does not comply |

Legend:**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**NZIoC** - New Zealand Inventory of Chemicals**TCSI** - Taiwan Chemical Substance Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

International Inventories

| Chemical name | CAS No. | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | IECSC | AIIC | EINECS-No. |
|---------------|----------|---------------|---------------------|---------------------|---------------------|-------|------|----------------------|
| | 547-58-0 | PresentACTIVE | Present KE-11174 | Present | Present (5)-4278 | X | X | Present 208-925-3 |

U.S. Regulations**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.****Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Chemical name | CAS No. | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|---------------|----------|------------|------------------------|----------------------------|-------------------------------|
| | 547-58-0 | Not Listed | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

CERCLA

TSCA

| Chemical name | CAS No. | Hazardous Substances RQs | TPQ | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category |
|---------------|----------|--------------------------|-----|--|---------------------------------|
| | 547-58-0 | | | None | None |

U.S. TSCA

| Chemical name | CAS No. | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|---------------|----------|---|--|
| | 547-58-0 | Not Applicable | Not Applicable |

Canada**WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information: Not a dangerous product according to HPR classification criteria.

Component
Methyl Orange
547-58-0 (100)

WHMIS 2015 Hazard Classification
Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

| Chemical name | CAS No. | Canada (DSL) | Canada (NDSL) |
|---------------|----------|--------------|---------------|
| | 547-58-0 | Present | Not Listed |

| Chemical name | CAS No. | CEPA Schedule I - Toxic Substances |
|---------------|----------|---|
| | 547-58-0 | Not listed |
| Chemical name | CAS No. | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| | 547-58-0 | Not listed |

| Chemical name | CAS No. | EU GHS - SV - CLP (1272/2008) |
|---------------|----------|-------------------------------|
| | 547-58-0 | |

S -phrase(s)

none

| Chemical name | CAS No. | Classification according to Directive 67/548/EEC or 1999/45/EC | Concentration Limits: | Safety Phrases |
|---------------|----------|--|-----------------------|----------------|
| Methyl Orange | 547-58-0 | | No information | |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Not dangerous

16. Other information

| | | | | |
|-------------|------------------|----------------|--------------------|-----------------------|
| NFPA | Health hazards 0 | Flammability 0 | Instability 0 | Special hazards - |
| HMIS | Health hazards 0 | Flammability 0 | Physical hazards 0 | Personal protection X |

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend**

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |
| + | Sensitizers | | |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 28-November-2024
Revision Note No information available.

Disclaimer

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 a 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.

End of Safety Data Sheet