

Material Safety Data Sheet

Version:01 Revision Date 12/5/2025

Section 1. Product Information and Company Identification				
Product name	Methyl Red			
Mol. formula	C15H15N3O2	CAS No.	493-52-7	
Mol.wt	269.30 g/mol			
Manufacturer name	Pioneers for laboratory chemicals			
Brand name	Piochem			
Address	Area 540, Industr	rial Zone 6 th Octobe	r city Giza, Egypt.	
Website	www.piochem.com			
E-mail	info@piochem.com			
Phone number	+201225728304 , +201023932115			

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Chronic aquatic toxicity (Category 2), H411

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 none

Hazard statement(s)

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard none

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Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Acid Red 2

2-(4-Dimethylaminophenylazo)benzoic acid 4-Dimethylaminoazobenzene-2'-carboxylic acid

Formula : C15H15N3O2 Molecular weight : 269.30 g/mol CAS-No. : 493-52-7 EC-No. : 207-776-1

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

Component Classification Concentration

2-(4-Dimethylaminophenylazo)benzoic acid

CAS-No. 493-52-7 Aquatic Chronic 2; H411 <= 100 %

EC-No. 207-776-1

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

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2 .2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non Combustible Solids

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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: powder

Colour: dark violet

b) Odour No data available

c) Odour Threshold No data available

d) pH No data available

e) Melting point/freezing

point

Melting point/range: 179 - 182 °C - lit.

f) Initial boiling point and

boiling range

No data available

g) Flash point No data available

h) Evaporation rate No data available

i) Flammability (solid, gas) No data available

j) Upper/lower flammability or

No data available

explosive limits

.. .

k) Vapour pressure No data availablel) Vapour density No data available

m) Relative density 0.989 g/cm3n) Water solubility slightly soluble

o) Partition coefficient: noctanol/water onginay oorabio

log Pow: 3.9 - The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR)

modeling.

p) Auto-ignition temperature No data available

q) Decomposition temperature

No data available

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

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Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available2-(4-Dimethylaminophenylazo)benzoic acid

Skin corrosion/irritation

No data available(2-(4-Dimethylaminophenylazo)benzoic acid)

Serious eye damage/eye irritation

No data available(2-(4-Dimethylaminophenylazo)benzoic acid)

Respiratory or skin sensitisation

No data available(2-(4-Dimethylaminophenylazo)benzoic acid)

Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.(2-(4-Dimethylaminophenylazo)benzoic acid)

Result: Equivocal evidence.

Histidine reversion (Ames)

Rat(2-(4-Dimethylaminophenylazo)benzoic acid)

Liver

Unscheduled DNA synthesis

Carcinogenicity

This product is or contains a component that is not classifiable as to its classification.(2-(4-Dimethylaminophenylazo)benzoic acid)

(2-(4-Dimethylaminophenylazo)benzoic acid)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-(4-

Dimethylaminophenylazo)benzoic acid)

Reproductive toxicity

No data available(2-(4-Dimethylaminophenylazo)benzoic acid)

Specific target organ toxicity - single exposure

No data available(2-(4-Dimethylaminophenylazo)benzoic acid)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(2-(4-Dimethylaminophenylazo)benzoic acid)

Additional Information

RTECS: DG8960000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(2-(4-Dimethylaminophenylazo)benzoic acid)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 7 mg/l - 96 h(2-(4-

Dimethylaminophenylazo)benzoic acid)

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12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil

No data available(2-(4-Dimethylaminophenylazo)benzoic acid)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dissolve or mix the material with a combustible solvent and burn in a chem scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H411 Toxic to aquatic life with long lasting effects.

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