

According to Regulation (EC) No 1907/2006

Methyl Red (C.I. 13020)

Version number: 2
Issued: 2023-09-19
Replaces SDS: 2019-09-12



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

1.1. Product identifier

Trade name

Methyl Red (C.I. 13020)

CAS number

493-52-7

EC number

207-776-1

Synonyms

2-(4-dimethylaminophenylazo)benzoic acid

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

Relevant identified uses

Research and development.

Not suitable for use in

Not suitable for human consumption or veterinary purposes.

1.3. Details of the supplier of the safety data sheet

Supplier

Molekula Group

Street address

Molekula Ltd, Lingfield Way, Darlington,
DL1 4XX Darlington
United Kingdom

Telephone

+44 (0) 3302 000 333

Email

info@molekula.com

Web site

www.molekula.com

Contact person

Kevin Banks

Email address

+44 (0) 7769276927

1.4. Emergency telephone number

Poison center/Additional emergency number

0344 892 0111 - National Poisons Information Service (Newcastle Centre)

According to Regulation (EC) No 1907/2006

Methyl Red (C.I. 13020)

Version number: 2
 Issued: 2023-09-19
 Replaces SDS: 2019-09-12



SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2. Label elements

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Methyl Red (C.I. 13020)	493-52-7 207-776-1 - -	100%	-	- - -	-

Molecular weight

269.30

SECTION 4: First aid measures

4.1. Description of first aid measures

Show this Safety Data Sheet (SDS) to medical personnel. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.

Inhalation

Move to fresh air if inhaled.

Get medical attention if any discomfort continues. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Serious cases: If not breathing, give artificial respiration.

Skin contact

Rinse skin with water.

If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Do not remove clothing if stuck to the skin.

According to Regulation (EC) No 1907/2006

Methyl Red (C.I. 13020)

Version number: 2
 Issued: 2023-09-19
 Replaces SDS: 2019-09-12



Eye contact

Remove contact lenses if present. Rinse eyes with water.
 If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth.
 Get medical advice/attention if you feel unwell. Do NOT induce vomiting.

Information for doctors

No data available.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation

May cause respiratory irritation.

Skin contact

Prolonged contact may cause dryness of the skin.

Eye contact

May be slightly irritating to the eyes. Redness.

Ingestion

May cause discomfort if swallowed. Severe abdominal pain.

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

Treat symptomatically. No special treatment requirement.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use foam, carbon dioxide, dry powder or water fog to extinguish.

Unsuitable extinguishing media

No specific fire fighting procedure given.

5.2. Special hazards arising from the substance or mixture

Specific hazards:

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Carbon monoxide (CO). Carbon dioxide (CO₂).

Nitrous gases (NO_x).

According to Regulation (EC) No 1907/2006

Methyl Red (C.I. 13020)

Version number: 2
 Issued: 2023-09-19
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5.3. Advice for firefighters

Special protective equipment for fire-fighters

Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Keep away from heat, sparks and open flame. Keep away from combustible materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8. Avoid dust formation. Eliminate all sources of ignition.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation. For precautions see section 2.2.

General hygiene

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store at ambient temperature. Store in a dry place. Store in a closed container.

7.3. Specific end use(s)

No specific usage precautions noted.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

No occupational exposure limit assigned.

According to Regulation (EC) No 1907/2006

Methyl Red (C.I. 13020)

Version number: 2
 Issued: 2023-09-19
 Replaces SDS: 2019-09-12



8.2. Exposure controls

Personal Protective Equipment Symbols



Eye / face protection

Wear eye protection.

Hand protection

Wear protective gloves.

Recommended gloves: Nitrile.

Glove Thickness: 0.11mm

Breakthrough time: 8 hours

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Wash contaminated skin thoroughly after handling.

Other skin protection

Wash skin thoroughly after handling.

Respiratory protection

Provide adequate ventilation.

Environmental exposure controls

Avoid discharge into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid

Colour

Reddish.

Odour

No data available

Melting point / freezing point

179 - 182 °C

Boiling point or initial boiling point and boiling range

No data available

Flammability

No data available

Lower and upper explosion limit

No data available

According to Regulation (EC) No 1907/2006

Methyl Red (C.I. 13020)

Version number: 2
 Issued: 2023-09-19
 Replaces SDS: 2019-09-12



Flash point

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

pH

No data available

Kinematic viscosity

No data available

Solubility

No data available

Partition coefficient n-octanol/water

No data available

Vapour pressure

No data available

Density and/or relative density

No data available

Relative vapour density

No data available

Particle characteristics

No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Violent reactions possible with:
 Strong oxidising agents.

10.4. Conditions to avoid

Avoid dust formation. Incompatible materials. Avoid excessive heat.

According to Regulation (EC) No 1907/2006

Methyl Red (C.I. 13020)

Version number: 2
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10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products

See section 5. Nitrous gases (NO_x).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Methyl Red (C.I. 13020) 493-52-7 / 207-776-1	LC50	7 mg/l	96 hours	Gambusia affinis (Mosquito fish)

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Methyl Red (C.I. 13020) 493-52-7 / 207-776-1	EC50	26 mg/l	96 hours	Lemna minor (duckweed)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

According to Regulation (EC) No 1907/2006

Methyl Red (C.I. 13020)

Version number: 2
 Issued: 2023-09-19
 Replaces SDS: 2019-09-12



12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU regulations

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

National regulations

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

No data available