| **Methyl Red** pH Indicator<br>**CAS No 493-52-7** | **MATERIAL SAFETY DATA SHEET**<br>**SDS/MSDS** |
|---|---|

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

### 1.1 Product identifiers

Product name : **Methyl Red** pH Indicator

CAS-No. : 493-52-7

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

### 1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd
7/28 Vardaan House
New Delhi-10002
INDIA

Telephone : +91 11 49404040
Email : care@cdhfinechemical.com

### 1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

## 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

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<br>2-(4-Dimethylaminophenylazo)benzoic acid<br>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.

### 5.4 Further information
No data available

## 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).

**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<br>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 explosive limits | No data available |
| k) | Vapour pressure | No data available |
| l) | Vapour density | No data available |
| m) | Relative density | 0.989 g/cm3 |
| n) | Water solubility | slightly soluble |
| o) | Partition coefficient: n-octanol/water | 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 available |
| s) | 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

### 10.5 Incompatible materials

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) |

**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

## 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. |

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.