

# Voluntary safety information following the Safety Data Sheet format according to Regulation (EC) No. 1907/2006 (REACH)



**Methyl red (C.I. 13020) p.a., ACS**

article number: **T120**

Version: **4.1 en**

Replaces version of: 02.03.2024

Version: (4)

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Revision: 18.09.2024

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

### 1.1 Product identifier

Identification of the substance

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Article number

T120

Registration number (REACH)

It is not required to list the identified uses because the substance is not subject to registration according to REACH (< 1 t/a).

EC number

207-776-1

CAS number

493-52-7

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

Relevant identified uses:

Laboratory chemical  
Laboratory and analytical use

Uses advised against:

Do not use for private purposes (household).  
Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0

**Telefax:** +49 (0) 721 - 56 06 149

**e-mail:** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

**e-mail (competent person):**

[sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

### 1.4 Emergency telephone number

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

not required

### 2.3 Other hazards

**Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

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**Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                   |                      |
|-------------------|----------------------|
| Name of substance | Methyl red           |
| Molecular formula | $C_{15}H_{15}N_3O_2$ |
| Molar mass        | 269,3 g/mol          |
| CAS No            | 493-52-7             |
| EC No             | 207-776-1            |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



**General notes**

Take off contaminated clothing.

**Following inhalation**

Provide fresh air.

**Following skin contact**

Rinse skin with water/shower.

**Following eye contact**

Rinse cautiously with water for several minutes.

**Following ingestion**

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



**Suitable extinguishing media**

co-ordinate firefighting measures to the fire surroundings!  
water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

**Unsuitable extinguishing media**

water jet

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**5.2 Special hazards arising from the substance or mixture**

Combustible.

**Hazardous combustion products**

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**



**For non-emergency personnel**

No special measures are necessary.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

**6.3 Methods and material for containment and cleaning up**

**Advice on how to contain a spill**

Covering of drains. Take up mechanically.

**Advice on how to clean up a spill**

Take up mechanically.

**Other information relating to spills and releases**

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

No special measures are necessary.

**Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a dry place.

**Incompatible substances or mixtures**

Observe hints for combined storage. Incompatible materials: see section 10.

**Consideration of other advice:**

**Specific designs for storage rooms or vessels**

Recommended storage temperature: 15 – 25 °C

**7.3 Specific end use(s)**

No information available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection.

##### Skin protection



- **hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

- **type of material**

NBR (Nitrile rubber)

- **material thickness**

>0,11 mm

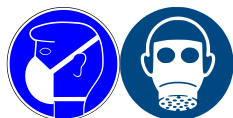
- **breakthrough times of the glove material**

>480 minutes (permeation: level 6)

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

##### Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

##### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                |            |
|----------------|------------|
| Physical state | solid      |
| Form           | powder     |
| Colour         | red violet |

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|                                                          |                                                           |
|----------------------------------------------------------|-----------------------------------------------------------|
| Odour                                                    | faintly perceptible                                       |
| Melting point/freezing point                             | 179 – 182 °C                                              |
| Boiling point or initial boiling point and boiling range | not determined                                            |
| Flammability                                             | this material is combustible, but will not ignite readily |
| Lower and upper explosion limit                          | not relevant (solid)                                      |
| Flash point                                              | not applicable                                            |
| Auto-ignition temperature                                | not determined                                            |
| Decomposition temperature                                | not relevant                                              |
| pH (value)                                               | not applicable                                            |
| Kinematic viscosity                                      | not relevant                                              |

## Solubility(ies)

|                  |                                   |
|------------------|-----------------------------------|
| Water solubility | 2,5 g/l at 20 °C (poorly soluble) |
|------------------|-----------------------------------|

## Partition coefficient

|                                                    |      |
|----------------------------------------------------|------|
| Partition coefficient n-octanol/water (log value): | 3,83 |
|----------------------------------------------------|------|

|                 |                |
|-----------------|----------------|
| Vapour pressure | not determined |
|-----------------|----------------|

## Density and/or relative density

|                         |                             |
|-------------------------|-----------------------------|
| Density                 | 0,989 g/cm <sup>3</sup>     |
| Relative vapour density | not relevant (solid)        |
| Bulk density            | 300 – 500 kg/m <sup>3</sup> |

|                          |                    |
|--------------------------|--------------------|
| Particle characteristics | No data available. |
|--------------------------|--------------------|

## Other safety parameters

|                      |      |
|----------------------|------|
| Oxidising properties | none |
|----------------------|------|

## **9.2 Other information**

|                                                     |                                                             |
|-----------------------------------------------------|-------------------------------------------------------------|
| Information with regard to physical hazard classes: | hazard classes acc. to GHS (physical hazards): not relevant |
| Other safety characteristics:                       | There is no additional information.                         |

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

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#### **10.2 Chemical stability**

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### **10.3 Possibility of hazardous reactions**

**Violent reaction with:** strong oxidiser

#### **10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

#### **10.5 Incompatible materials**

There is no additional information.

#### **10.6 Hazardous decomposition products**

Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

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

##### **Classification according to GHS (1272/2008/EC, CLP)**

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

##### **Acute toxicity**

Shall not be classified as acutely toxic.

##### **Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

##### **Serious eye damage/eye irritation**

Shall not be classified as seriously damaging to the eye or eye irritant.

##### **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

##### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

##### **Carcinogenicity**

Shall not be classified as carcinogenic.

##### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

##### **Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant (single exposure).

##### **Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

##### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### **Symptoms related to the physical, chemical and toxicological characteristics**

##### **• If swallowed**

Data are not available.

##### **• If in eyes**

Data are not available.

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- **If inhaled**

Data are not available.

- **If on skin**

Data are not available.

- **Other information**

Health effects are not known. This information is based upon the present state of our knowledge.

## 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## 11.3 Information on other hazards

There is no additional information.

# SECTION 12: Ecological information

## 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

## 12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification):  $1,842 \text{ mg/mg}$

Theoretical Oxygen Demand (with nitrification):  $2,159 \text{ mg/mg}$

Theoretical Carbon Dioxide:  $2,451 \text{ mg/mg}$

### Biodegradation

The substance is readily biodegradable.

## 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

|                           |      |
|---------------------------|------|
| n-octanol/water (log KOW) | 3,83 |
|---------------------------|------|

## 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

Data are not available.

## 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## 12.7 Other adverse effects

Data are not available.

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

### Sewage disposal-relevant information

Do not empty into drains.

### Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

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## 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

|      |                            |                                                                       |
|------|----------------------------|-----------------------------------------------------------------------|
| 14.1 | UN number or ID number     | not subject to transport regulations                                  |
| 14.2 | UN proper shipping name    | not assigned                                                          |
| 14.3 | Transport hazard class(es) | none                                                                  |
| 14.4 | Packing group              | not assigned                                                          |
| 14.5 | Environmental hazards      | non-environmentally hazardous acc. to the dangerous goods regulations |

## 14.6 Special precautions for user

There is no additional information.

## 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

## 14.8 Information for each of the UN Model Regulations

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

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

### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

not listed

#### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

not listed

#### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |                                                                                       |       |
|-------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|                         | not assigned                          |                                                                                       |       |

#### Deco-Paint Directive

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|



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## Industrial Emissions Directive (IED)

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

## Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

## Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

## Water Framework Directive (WFD)

not listed

## Regulation on the marketing and use of explosives precursors

not listed

## Regulation on drug precursors

not listed

## Regulation on substances that deplete the ozone layer (ODS)

not listed

## Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

## Regulation on persistent organic pollutants (POP)

not listed

## Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

## National inventories

| Country | Inventory | Status                       |
|---------|-----------|------------------------------|
| AU      | AIIC      | substance is listed          |
| CA      | DSL       | substance is listed          |
| CN      | IECSC     | substance is listed          |
| EU      | ECSI      | substance is listed          |
| KR      | KECI      | substance is listed          |
| MX      | INSQ      | substance is listed          |
| NZ      | NZIoC     | substance is listed          |
| PH      | PICCS     | substance is listed          |
| TW      | TCSI      | substance is listed          |
| US      | TSCA      | substance is listed (ACTIVE) |
| VN      | NCI       | substance is listed          |

### Legend

|       |                                                                         |
|-------|-------------------------------------------------------------------------|
| AIIC  | Australian Inventory of Industrial Chemicals                            |
| DSL   | Domestic Substances List (DSL)                                          |
| ECSI  | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ  | National Inventory of Chemical Substances                               |
| KECI  | Korea Existing Chemicals Inventory                                      |
| NCI   | National Chemical Inventory                                             |
| NZIoC | New Zealand Inventory of Chemicals                                      |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |

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## Legend

TCSI Taiwan Chemical Substance Inventory  
TSCA Toxic Substance Control Act

## 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)                                                                                                                  | Actual entry (text/value)                                                                                             | Safety-relevant |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------|
| 2.3     |                                                                                                                                            | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$ . | yes             |
| 14.8    | Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information:<br>Not subject to ADR, RID and ADN. |                                                                                                                       | yes             |
| 15.1    |                                                                                                                                            | National inventories:<br>change in the listing (table)                                                                | yes             |

### Abbreviations and acronyms

| Abbr.    | Descriptions of used abbreviations                                                                                                                                                |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADR      | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)                     |
| CAS      | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                            |
| CLP      | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                                                                                |
| DGR      | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                        |
| EC No    | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED       | Endocrine disruptor                                                                                                                                                               |
| EINECS   | European Inventory of Existing Commercial Chemical Substances                                                                                                                     |
| ELINCS   | European List of Notified Chemical Substances                                                                                                                                     |
| GHS      | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                         |
| IATA     | International Air Transport Association                                                                                                                                           |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                    |
| ICAO     | International Civil Aviation Organization                                                                                                                                         |
| IMDG     | International Maritime Dangerous Goods Code                                                                                                                                       |
| NLP      | No-Longer Polymer                                                                                                                                                                 |
| PBT      | Persistent, Bioaccumulative and Toxic                                                                                                                                             |
| REACH    | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                              |
| SVHC     | Substance of Very High Concern                                                                                                                                                    |
| VOC      | Volatile Organic Compounds                                                                                                                                                        |
| vPvB     | Very Persistent and very Bioaccumulative                                                                                                                                          |

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## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.  
Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.