

**SAFETY DATA SHEET**

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 03/08/2018

Version 1.3

**SECTION 1. Identification****Product identifier**

Product number	101340
Product name	Congo red (C.I. 22120) indicator Reag. Ph Eur
CAS-No.	573-58-0

**Relevant identified uses of the substance or mixture and uses advised against**

Identified uses	Reagent for analysis
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**Details of the supplier of the safety data sheet**

Company	EMD Millipore Corporation   290 Concord Road, Billerica, MA 01821, United States of America   General Inquiries: +1-978-715-4321   Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5) MilliporeSigma is a business of Merck KGaA, Darmstadt, Germany.
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<b>Emergency telephone</b>	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week
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**SECTION 2. Hazards identification****GHS Classification**

Carcinogenicity, Category 1B, H350  
Reproductive toxicity, Category 2, H361

For the full text of the H-Statements mentioned in this Section, see Section 16.

**GHS-Labeling***Hazard pictograms*

*Signal Word*  
Danger

*Hazard Statements*

H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.

*Precautionary Statements*

P201 Obtain special instructions before use.

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 101340  
Product name Congo red (C.I. 22120) indicator Reag. Ph Eur

Version 1.3

P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

## Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

Formula  $C_{32}H_{22}N_6Na_2O_6S_2$  (Hill)  
Molar mass 696.68 g/mol

### Hazardous ingredients

*Chemical name (Concentration)*

CAS-No.

*C.I. Direct Red 28 (>= 90 % - <= 100 % )*

573-58-0

Exact percentages are being withheld as a trade secret.

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## SECTION 4. First aid measures

### Description of first-aid measures

*General advice*

First aider needs to protect himself.

*Inhalation*

After inhalation: fresh air. Call in physician.

*Skin contact*

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

*Eye contact*

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

*Ingestion*

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Never give anything by mouth to an unconscious person.

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

Tiredness

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

No information available.

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## SECTION 5. Fire-fighting measures

### Extinguishing media

*Suitable extinguishing media*

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 101340  
Product name Congo red (C.I. 22120) indicator Reag. Ph Eur

Version 1.3

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

### *Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

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

Combustible.

Development of hazardous combustion gases or vapors possible in the event of fire.

Fire may cause evolution of:

nitrogen oxides, Sulfur oxides

### **Advice for firefighters**

#### *Special protective equipment for fire-fighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### *Further information*

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## **SECTION 6. Accidental release measures**

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

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### **Environmental precautions**

Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

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## **SECTION 7. Handling and storage**

### **Precautions for safe handling**

Observe label precautions.

Work under hood. Do not inhale substance/mixture.

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

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Protected from light.

Store at +5°C to +30°C (+41°F to +86°F).

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number

101340

Version 1.3

Product name

Congo red (C.I. 22120) indicator Reag. Ph Eur

---

## SECTION 8. Exposure controls/personal protection

### Exposure limit(s)

Contains no substances with occupational exposure limit values.

### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

### Eye/face protection

Safety glasses

### Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

### Other protective equipment:

protective clothing

### Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 3 (acc. to DIN 3181) for solid and liquid particles of toxic and very toxic substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are performed according to the instructions of the producer. These measures have to be properly documented.

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number

101340

Version 1.3

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---

## SECTION 9. Physical and chemical properties

Physical state	solid
Color	red brown
Odor	characteristic
Odor Threshold	No information available.
pH	ca. 6.7 at 10 g/l 68 °F (20 °C)
Melting point	> 680 °F (> 360 °C)
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	< 1 Pa
Relative vapor density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	25 g/l at 68 °F (20 °C)
Partition coefficient: n-octanol/water	log Pow: 2.63 (calculated) Bioaccumulation is not expected. (Lit.)
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.

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Product number 101340  
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Version 1.3

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Explosive properties	Not classified as explosive.
Oxidizing properties	none
Bulk density	ca.600 - 700 kg/m <sup>3</sup>

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## SECTION 10. Stability and reactivity

### Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### Chemical stability

Sensitivity to light

### Possibility of hazardous reactions

Violent reactions possible with:  
Strong oxidizing agents, Strong acids

### Conditions to avoid

no information available

### Incompatible materials

no information available

### Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### Information on toxicological effects

#### *Likely route of exposure*

Eye contact, Skin contact, Ingestion

#### *Acute oral toxicity*

LD50 Rat: 15,200 mg/kg (HSDB)

#### *Eye irritation*

Rabbit

Result: No eye irritation

(HSDB)

#### *CMR effects*

Carcinogenicity: May cause cancer.

Teratogenicity / Reproductive toxicity: Suspected of damaging fertility or the unborn child.

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

The substance or mixture is not classified as specific target organ toxicant, single exposure.

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

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

# SAFETY DATA SHEET

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Product number 101340  
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Version 1.3

## *Aspiration hazard*

Regarding the available data the classification criteria are not fulfilled.

## **Carcinogenicity**

IARC	Group 2A: Probably carcinogenic to humans C.I. Direct Red 28 573-58-0
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

## **Further information**

After absorption:

In animal experiments:

Tiredness, Changes in the blood count

Toxic effect on:

Lungs

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

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## **SECTION 12. Ecological information**

### **Ecotoxicity**

*Toxicity to daphnia and other aquatic invertebrates*

static test LC50 Daphnia magna (Water flea): 4 mg/l; 48 h (ECOTOX Database)

### **Persistence and degradability**

No information available.

### **Bioaccumulative potential**

*Partition coefficient: n-octanol/water*

log Pow: 2.63

(calculated)

Bioaccumulation is not expected. (Lit.)

### **Mobility in soil**

No information available.

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## **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

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according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 101340  
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Version 1.3

---

**SECTION 14. Transport information**

**Land transport (DOT)**

**UN number** UN 2811  
**Proper shipping name** TOXIC SOLID, ORGANIC, N.O.S. (DISODIUM-3,3'-((1,1-BIPHENYL)-4,4'-DIYLBIS(AZO)) BIS (4-AMINONAPHTHALENE-1-SULFONATE))  
**Class** 6.1  
**Packing group** III  
**Environmentally hazardous** --

**Air transport (IATA)**

**UN number** UN 2811  
**Proper shipping name** TOXIC SOLID, ORGANIC, N.O.S. (DISODIUM-3,3'-((1,1-BIPHENYL)-4,4'-DIYLBIS(AZO)) BIS (4-AMINONAPHTHALENE-1-SULFONATE))  
**Class** 6.1  
**Packing group** III  
**Environmentally hazardous** --  
**Special precautions for user** no

**Sea transport (IMDG)**

**UN number** UN 2811  
**Proper shipping name** TOXIC SOLID, ORGANIC, N.O.S. (DISODIUM-3,3'-((1,1-BIPHENYL)-4,4'-DIYLBIS(AZO)) BIS (4-AMINONAPHTHALENE-1-SULFONATE))  
**Class** 6.1  
**Packing group** III  
**Environmentally hazardous** --  
**Special precautions for user** yes  
**EmS** F-A S-A

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**SECTION 15. Regulatory information**

**United States of America**

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



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---

## Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

## DEA List I

Not listed

## DEA List II

Not listed

## TSCA 12b

### Ingredients

C.I. Direct Red 28

573-58-0

## US State Regulations

### Massachusetts Right To Know

Remarks

No components are subject to the Massachusetts Right to Know Act.

### California Prop 65 Components

WARNING: this product contains a chemical known in the State of California to cause cancer.

### Ingredients

C.I. Direct Red 28

## Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL

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## SECTION 16. Other information

### Training advice

Provide adequate information, instruction and training for operators.

### Labeling

Hazard pictograms



Signal Word

Danger

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---

## *Hazard Statements*

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

## *Precautionary Statements*

Prevention

P201 Obtain special instructions before use.

Response

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Restricted to professional users.

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

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

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

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Revision Date 03/08/2018

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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