Printing date 12/21/2022 Reviewed on 12/21/2022

### 1 Identification

· Product identifier

· Trade name: Congo Red

· Article number: 27215

• CAS Number: 573-58-0 • EC number:

209-358-4

• Index number: 611-027-00-8

- · Application of the substance / the mixture: Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SERVA Electrophoresis GmbH

Carl-Benz-Str. 7 D-69115 Heidelberg Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10 msds.info@serva.de

- · Information department: Product Safety department Tel.: +49 6221 13840-35
- · Emergency telephone number:

Medical Emergency Information in case of poisoning:

Poison Information Center Mainz - Phone: +49 (0) 6131 19240

(advisory service in German or English language)

## 2 Hazard(s) identification

· Classification of the substance or mixture



Carcinogenicity 1B H350 May cause cancer.

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms: GHS08
- · Signal word: Danger
- · Hazard statements:

May cause cancer.

Suspected of damaging fertility or the unborn child.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

IF exposed or concerned: Get medical advice/attention.

Store locked up.

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

(Contd. on page 2)

(Contd. of page 1)

# Safety Data Sheet acc. to OSHA HCS

Printing date 12/21/2022 Reviewed on 12/21/2022

Trade name: Congo Red

· Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment:
- · PBT: PBT assessment not available.
- · vPvB: vPvB assessment not available.

### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:

573-58-0 C.I. Direct Red 28

- · Identification number(s):
- · EC number: 209-358-4
- · Index number: 611-027-00-8
- · Description:
- · Empirical formula:  $C_{32}H_{22}N_6O_6S_2Na_2$
- · MW: 696.70

#### 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediate wash with copious amounts of water and soap; rinse thoroughly; seek medical advice.

· After eye contact:

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.

- · After swallowing: Wash out mouth. Call a doctor immediately.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

Formation of dangerous gases or vapours is possible in case of fire.

*In case of fire, the following can be released:* 

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Sulphur oxides (SOx)

- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

(Contd. on page 3)

Printing date 12/21/2022 Reviewed on 12/21/2022

Trade name: Congo Red

(Contd. of page 2)

· Additional information

Collect contaminated fire fighting agent separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting media in accordance with official regulations.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Ensure adequate ventilation

Avoid formation of dust.

- · Environmental precautions: Do not allow to enter sewers/surface or ground water.
- · Methods and material for containment and cleaning up

Dispose contaminated material as waste according to item 13.

Pick up mechanically.

- · Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· Precautions for safe handling:

Avoid contact with eyes and skin.

Open and handle receptacle with care.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from oxidizing agents.
- · Further information about storage conditions:

Store under lock and key and with access restricted to technical experts or their assistants only.

Keep receptacle tightly sealed and store in dry conditions.

· Specific end use(s): No further relevant information available.

## 8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Additional information about design of technical systems: No further data; see item 7.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Store protective clothing separately.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

(Contd. on page 4)

Printing date 12/21/2022 Reviewed on 12/21/2022

Trade name: Congo Red

(Contd. of page 3)

#### · Breathing equipment:

Short term filter device:

Filter P3

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### · Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Neoprene gloves

Rubber gloves

Nitrile rubber, NBR

#### · Eye protection:

Safety glasses

Tightly sealed goggles

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information:

Color: reddish-brownOdor: Characteristic

Odor threshold:
 Melting point/Melting range:
 Boiling point/Boiling range:
 Flammability (solid, gaseous):

no information available

 no information available

· Explosion limits:

Lower: no information available
 Upper: no information available
 Flash point: no information available
 Decomposition temperature: no information available

• *pH-value*: ~6.7

· Viscosity:

Kinematic viscosity: no information available
 Dynamic viscosity: no information available

· Solubility in / Miscibility with:

• Water at **20 °C** (**68 °F**): 25 g/l

· Partition coefficient (n-octanol/water): Not determined.

Vapor pressure: no information available
 Density: no information available
 Relative density: no information available

(Contd. on page 5)

Printing date 12/21/2022 Reviewed on 12/21/2022

Trade name: Congo Red

(Contd. of page 4)

· Other information

· Appearance:

· Form: Powder

 Important information on protection of health and environment, and on safety:

• Danger of explosion: no information available

· Molecular weight 696.7 g/mol

### 10 Stability and reactivity

- · Reactivity: No further relevant informations available
- · Chemical stability:
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions:

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

violent reactions possible in contact with:

strong oxidizing agents

strong acids

strong bases

- · Conditions to avoid: high ttemperatures
- · Incompatible materials: Avoid contact with: strong oxidizers, strong acids, strong alcali
- · Hazardous decomposition products: In case of fire: See Section 5

#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

Oral LD50 143 mg/kg (rat)

- · Carcinogenicity: May cause cancer.
- · Reproductive toxicity: Suspected of damaging fertility or the unborn child.
- · Other information (about experimental toxicology)

Ethylenediamine is identified as a substance of very high concern in accordance with Article 57(f) of Regulation (EC) 1907/2006 (REACH) because it is a substance with respiratory sensitising properties for which there is scientific evidence of probable serious effects to human health which gives rise to an equivalent level of concern to those substances listed in points (a) to (e) of Article 57 of REACH.

(ECHA SVHC Support Document - Ethylendiamine; 6.3.1)

Supplementary Information on human health effects concerning C.I. DIRECT RED: SVHC SUPPORT DOCUMENT - C.I. DIRECT RED 28, Annex I

· Additional toxicological information:

In case of resorption of toxic doses: in animal experiments tiredness, change of blood count Toxic effect on lungs

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) K
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## 12 Ecological information

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.

(Contd. on page 6)

Printing date 12/21/2022 Reviewed on 12/21/2022

Trade name: Congo Red

(Contd. of page 5)

· Bioaccumulative potential:

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

- · *Mobility in soil:* No further relevant information available.
- · Results of PBT and vPvB assessment:
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects:
- · Additional ecological information:
- · General notes:

Danger to drinking water if even extremely small quantities leak into the ground.

Water hazard class 3 (Assessment by list): extremely hazardous for water

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN2811
· UN proper shipping name · DOT · ADR · IMDG, IATA	Toxic solids, organic, n.o.s. (C.I. Direct Red 28) 2811 TOXIC SOLID, ORGANIC, N.O.S. (C.I. Direct Red 20 TOXIC SOLID, ORGANIC, N.O.S. (C.I. Direct Red 28)
· Transport hazard class(es)	
$\cdot$ DOT	
TOXIC 6	
· Class	6.1 Toxic substances
· Label	6.1
· ADR, IMDG, IATA	
· Class:	6.1 Toxic substances
· Label:	6.1
· Packing group · DOT, ADR, IMDG, IATA	III

(Contd. on page 7)

Printing date 12/21/2022 Reviewed on 12/21/2022

Trade name: Congo Red

	(Contd. of page
· Environmental hazards	
· Marine pollutant:	No
· Special precautions for user	Warning: Toxic substances
· Hazard identification number (Kemler code):	60
· EMS Number:	F- $A$ , $S$ - $A$
· Stowage Category	A
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· ADR	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· IMDG	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1
· · · · · · · · · · · · · · · · · · ·	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· UN ''Model Regulation'':	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (C.I. DIREC
	RED 28), 6.1, III

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65 Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS08
- · Signal word Danger
- · Hazard statements

May cause cancer.

Suspected of damaging fertility or the unborn child.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

IF exposed or concerned: Get medical advice/attention.

Store locked up.

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

(Contd. on page 8)

Printing date 12/21/2022 Reviewed on 12/21/2022

Trade name: Congo Red

(Contd. of page 7)

· National regulations:

#### · Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department
- · Contact: +49 6221 13840-35
- · Date of preparation / last revision 12/21/2022
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

bw: body weight

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Carcinogenicity 1B: Carcinogenicity - Category 1B

Toxic to Reproduction 2: Reproductive toxicity – Category 2

US