

# Congo red (C.I. 22120)

Revision date: 17.08.2023

Product code: 21999

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

## 1.1. Product identifier

Index No:

EC No:

Congo red (C.I. 22120) CAS No:

573-58-0 611-027-00-8 209-358-4

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

#### Use of the substance/mixture

Laboratory chemical

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name:	
Street:	
Place:	
Telephone:	Telefax: 0203/5194-290
E-mail:	
Contact person:	Telephone:0203/5194-107/117
E-mail:	
Internet:	
Responsible Department:	
4. Emergency telephone	oods] Incidents Spill, Leak, Fire,
number: Exposure, or Accident Call CHEMTREC Day or Night Within USA and Can   1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)	
4. Emergency telephone	ay or Night Within USA and C

#### **Further Information**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Carc. 1B; H350 Repr. 2; H361d

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

Regulation (EC) No 1272/2008 Signal word: Danger

Pictograms:



May cause cancer.

Hazard statements

H350



# Safety Data Sheet

#### according to Regulation (EC) No 1907/2006

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H361d	Suspected of damaging the unborn child.	
Precautionary statemer	nts	
P201	Obtain special instructions before use.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
Special labelling of cert	tain mixtures	
	Restricted to professional users.	

#### 2.3. Other hazards

No data available

#### **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Sum formula:	C32H22N6Na2O6S2
Molecular weight:	696,68 g/mol

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
573-58-0	disodium 3,3'-[[1,1'-biphenyl]-4,4'-diyl¬bis(azo)]bis(4-aminonaphthalene-1-sulphonate)		100 %	
	209-358-4	611-027-00-8		
	Carc. 1B, Repr. 2; H350 H361d			

Full text of H and EUH statements: see section 16.

#### **Further Information**

This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Self-protection of the first aider

## After inhalation

Provide fresh air. Call a physician immediately.

#### After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

# After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

No data available

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



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No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

no restriction

#### 5.2. Special hazards arising from the substance or mixture

Combustible solids Hazardous combustion products In case of fire may be liberated: Nitrogen oxides (NOx) Sulphur oxides

# 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Avoid contact with skin, eyes and clothes.

## Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

# For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

# 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

# 6.3. Methods and material for containment and cleaning up

# For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Take up carefully when dry. Take up dust-free and set down dust-free.

# For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

# Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13



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

# 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid exposure - obtain special instructions before use. If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust. Read label before use. Use extractor hood (laboratory).

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Store in a dry place. Store in a place accessible by authorized persons only. Protect against: Light

#### Further information on storage conditions

Store in a well-ventilated place. Keep container tightly closed. storage temperature +5°C - +30°C

# 7.3. Specific end use(s)

Laboratory chemicals

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.2. Exposure controls

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With



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according to Regulation (EC) No 1907/2006

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specification (test according to EN374):

By long-term hand contact Trade name/designation KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

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<(>,<)> supplied by us and for the designated use. 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).

## Skin protection

Wear suitable protective clothing. Full protection suit

#### **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: P3

## Environmental exposure controls

Do not allow to enter into surface water or drains.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state:	solid	
Colour:	red brown	
Odour:	characteristic	
Odour threshold:	No data available	
•	No data avaliable	>360 °C
Melting point/freezing point:		
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		not determined
Leuren eurole eien linsiter		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		No data available
pH-Value (at 20 °C):		~ 6,7 (10 g/l)
Viscosity / kinematic:		not determined
Water solubility:		25 g/L
(at 20 °C)		
Solubility in other solvents		
not determined		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		log Pow: 2,63
Dispersion stability:		No data available
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Vapour pressure:	<1 hPa	
Vapour pressure:	not determined	
Density:	No data available	
Relative density:	No data available	
Bulk density:	~ 600 - 700 kg/m³	
Relative vapour density:	not determined	
Particle characteristics:	No data available	
9.2. Other information		
Information with regard to physical hazard classe	95	
Explosive properties		
Danger of dust explosion.		
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	not determined	
Gas:	not applicable	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent separation test:	not determined	
Solvent content:	not determined	
Solid content:	100%	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
not determined:		
Viscosity / dynamic:	not determined	
Flow time:	not determined	
Further Information		
not determined		

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Danger of dust explosion.

# 10.2. Chemical stability

Protect against: Light

# 10.3. Possibility of hazardous reactions

Acids Oxidising agent

# 10.4. Conditions to avoid

Light

10.5. Incompatible materials

No data available

# 10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

### Further information

No data available



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## SECTION 11: Toxicological information

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

#### Toxicocinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

#### Acute toxicity

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

#### Irritation and corrosivity

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

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. (disodium 3,3'-[[1,1'-biphenyl]-4,4'-diyl¬bis(azo)]bis(4-aminonaphthalene-1-sulphonate)) Suspected of damaging the unborn child. (disodium 3,3'-[[1,1'-biphenyl] -4,4'-diyl¬bis(azo)]bis(4-aminonaphthalene-1-sulphonate)) Germ cell mutagenicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

# Information on likely routes of exposure

No data available

#### Specific effects in experiment on an animal

No data available

# Additional information on tests

No data available

# Practical experience

No data available

# 11.2. Information on other hazards

# Endocrine disrupting properties

No data available

# Other information

No data available

#### Further information

May cause damage to organs. (blood, lung)

#### **SECTION 12: Ecological information**

## 12.1. Toxicity

No data available

## 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

#### log Pow: 2,63

No indication of bioaccumulation potential.

## 12.4. Mobility in soil

No data available



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## 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. No data available

## 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

# No data available

12.7. Other adverse effects

Discharge into the environment must be avoided.

#### **Further information**

Do not allow to enter into surface water or drains.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains. Do not mix with other wastes.

## Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

#### 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No dangerous good in sense of this transport regulation. 14.7. Maritime transport in bulk according to IMO instruments not applicable



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## **SECTION 15: Regulatory information**

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

# EU regulatory information

Authorisations (REACH, annex XIV):

This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

Restrictions on use (REACH, annex XVII):

Entry 28, Entry 75

Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

National regulatory information

Information according to 2012/18/EU

Employment restrictions:

Water hazard class (D):

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. 3 - highly hazardous to water

# 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

# **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Carc: Carcinogenicity Repr: Reproductive toxicity

# Relevant H and EUH statements (number and full text)

H350 May cause cancer.

H361d Suspected of damaging the unborn child.

## **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.