

# **Congo Red**

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Neutron Dharmachamiaal Co	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/15/2014 Revision date: 04/18/2018 Supersedes: 12/15/2014 Version: 1.1
SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Congo Red
Chemical name	: disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate), C.I.
	Direct Red 28
CAS-No.	: 573-58-0
Product code	: 1.9010
Formula	: C32H22N6Na2O6S2
1.2. Recommended use and rest	rictions on use
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Supplier	
NEUTRON PHARMACHEMICAL CO	
98, 9th Floor, Borjsaz Building, Azadi A T 021-66906732-3 - F 021-66581408 info@neutronco.com www.neutronco.com	re, Tehran, Iran.
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 125
SECTION 2: Hazard(s) identified	action (
2.1. Classification of the substa	
GHS-US classification	
Carcinogenicity Category H350	May cause cancer
1B	iviay cause cancer
Reproductive toxicity H361 Category 2	Suspected of damaging fertility or the unborn child
Category 2 Full text of H statements : see section 1	
Category 2 Full text of H statements : see section 1	6
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Category 2 Full text of H statements : see section 10 <b>2.2.</b> GHS Label elements, includ GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	<ul> <li>ing precautionary statements</li> <li>: ing precautionary statements</li> <li< td=""></li<></ul>
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Name		Product identifier	%	GHS-US classification
Congo Red (Main constituent)		(CAS-No.) 573-58-0	100	Carc. 1B, H350 Repr. 2, H361
Full text of hazard classes and H-statements : see section 16				
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid measures	S			
First-aid measures general	: Never give anything by medical advice/attentic	r mouth to an unconscious pron.	erson. IF e	exposed or concerned: Get
First-aid measures after inhalation	: Allow victim to breathe	fresh air. Allow the victim to	rest.	
First-aid measures after skin contact	: Remove affected cloth by warm water rinse.	ing and wash all exposed sk	in area wit	th mild soap and water, followed
First-aid measures after eye contact	: Rinse immediately with persists.	n plenty of water. Obtain med	lical attent	tion if pain, blinking or redness
First-aid measures after ingestion	: Rinse mouth. Do NOT	induce vomiting. Obtain eme	ergency m	edical attention.
4.2. Most important symptoms and e	effects (acute and delayed)			
Symptoms/effects	: May cause cancer. Su	spected of damaging fertility	or the unb	oorn child.
Symptoms/effects after inhalation	: Headache. Dizziness.			
Symptoms/effects after skin contact	: May cause moderate in	ritation.		
Symptoms/effects after eye contact	: May cause eye irritatio	n.		
Symptoms/effects after ingestion	: Nausea. Vomiting.			
Symptoms/effects upon intravenous administration				
Chronic symptoms	: Not available.	: Not available.		
4.3. Immediate medical attention and	d special treatment, if necess	ary		
Obtain medical assistance. Treat symptoma	tically.			
SECTION 5: Fire-fighting measure	es			
5.1. Suitable (and unsuitable) exting	uishing media			
Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.				
Unsuitable extinguishing media : Do not use a heavy water stream.				
5.2. Specific hazards arising from th	e chemical			
Fire hazard	: No fire hazard.			
Explosion hazard	: No direct explosion ha	zard.		
Reactivity	: Product is not explosiv			
5.3. Special protective equipment and precautions for fire-fighters				
5.3.         Special protective equipment and precautions for fire-fighters           Precautionary measures fire         : Evacuate area. Stop leak if safe to do so.				
Firefighting instructions	: Use water spray or fog	<ul> <li>Evacuate area. Stop leak if safe to do so.</li> <li>Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.</li> </ul>		
Protection during firefighting	: Do not enter fire area v	0 0	ipment, in	cluding respiratory protection.
SECTION 6. Assidental releases				- 
SECTION 6: Accidental release m		procedures		
6.1. Personal precautions, protective			domoco	
General measures	Evacuate area. Absorb	spillage to prevent material	-uamage.	
6.1.1. For non-emergency personnel				
Protective equipment : Safety glasses. Gloves. Dust mask.				
Emergency procedures	: Evacuate unnecessary	personnel.		
6.1.2. For emergency responders				

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Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

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6.2.	Environmental precautions		
Prever	nt entry to sewers and public waters. No	otify authorities if liquid enters sewers or public waters.	
6.3.	Methods and material for contain	ment and cleaning up	
For co	ntainment	: Collect spillage.	
Metho	ds for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Carefully collect the spill/leftovers.	
6.4.	Reference to other sections		
See Heading 8. Exposure controls and personal protection.			
SEC	FION 7: Handling and storage		
7.1.	Precautions for safe handling		
Drocou	itions for acfa handling	· Week hands and other expected areas with mild seen and water before esting, dripking or	

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includin	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : combustible materials. Keep container closed when not in use.
Incompatible products	: Strong oxidizers. Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage area	: Keep container in a well-ventilated place. Keep locked up. Store in a cool area.

# SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2.	Appropriate engineering controls		
Approp	iate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.	
Environ	mental exposure controls	: Avoid release to the environment.	
8.3.	Individual protection measures/Per	onal protective equipment	

# Personal protective equipment:

Dust production: dust mask with filter type P1. Gloves. Safety glasses.



### Hand protection:

Wear protective gloves.

## Eye protection:

Chemical goggles or safety glasses

## Skin and body protection:

Protective clothing

### **Respiratory protection:**

Dust production: dust mask with filter type P1

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# Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Powder.	
Color	: red brown	
Odor	: None.	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: > 360 °C	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Molecular mass	: 696.67 g/mol	
Solubility	: Soluble in water. Water: 25 g/l Ethanol: 1 g/l Organic solvent:1 g/100ml EGME	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Product is not explosive.		
10.2. Chemical stability		
Stable under normal conditions. Not established.		
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low temperatures.		
10.5. Incompatible materials		
Strong oxidizers. Strong acids. Strong bases.		
10.6. Hazardous decomposition products		
Nitrogen oxides. Sulfur compounds. fume. Carbon	n monoxide. Carbon dioxide.	

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SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Likely routes of exposure	: Skin and eye contact; Inhalation; Ingestion

Likely loules of exposule	. Skill and eye contact, initialation, ingestion
Acute toxicity	: Not classified
Congo Red (573-58-0)	
LD50 oral rat	15200 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: Headache. Dizziness.
Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Nausea. Vomiting.
Symptoms/effects upon intravenous administration	: Not available.
Chronic symptoms	: Not available.

### **SECTION 12: Ecological information** 12.1. Toxicity Eagle ssified due to lack of data.

Congo Red (573-	58-0)	
12.2. Persisten	ce and degradability	
Ecology - general	:	Not clas

Congo Red (573-58-0) Not established. Persistence and degradability **Bioaccumulative potential** 12.3. Congo Red (573-58-0) Bioaccumulative potential Not established. 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information CECTION 42. D : Avoid release to the environment.

SECTION 13: Disposal considera	tions
13.1. Disposal methods	
Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. Avoid any discharge of the product into waste water.
Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk.
Ecology - waste materials	: Avoid release to the environment.
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# **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

# **Transportation of Dangerous Goods**

Not regulated

## Transport by sea

Not regulated

# Air transport

Not regulated

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Congo Red (573-58-0)		
Listed on the United States TSCA (Toxic Substances Control Ac	ct) inventory	
SARA Section 311/312 Hazard Classes	Health hazard - Carcinogenicity Health hazard - Reproductive toxicity	

CANADA	
Congo Red (573-58-0)	
Listed on the Canadian DSL (Domestic Substances List)	

# National regulations

Congo Red (573-58-0) Not listed on the Canadian IDL (Ingredient Disclosure List)

## 15.3. US State regulations

No additional information available

<b>SECTION 16: Other infor</b>	rmation
Revision date	: 04/18/2018
Other information	: None.
Full text of H-phrases: see section	on 16:
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

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Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal protection	: E E - Safety glasses, Gloves, Dust respirator