

# Safety Data Sheet acc. to OSHA HCS

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acc. to OSHA HCS	Printing date 02/02/2017 Revision date 02/01/2017
1 Identification	
Product identifier	
Product name: <u>Congo red</u> Stock number: 36434	
CAS Number: 0434 573-58-0	
<i>EC number:</i> 209-358-4	
Index number:	
611-027-00-8 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099	
Tel: 800-343-0660 F_ax: 800-322-4757	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (8	866) 928-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS08 Health hazard	
Carc. 1B H350 May cause cancer. Repr. 2 H361 Suspected of damaging fertility or the unborn child. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS08 Signal word Danger	
Hazard statements	
H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. <b>Precautionary statements</b>	
P201 Obtain special instructions before use	
P281 Use personal protective equipment as required. P202 Do not handle until all safety precautions have been read and understood. P308+P313 IF exposed or concerned: Get medical advice/attention.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D2A - Very toxic material causing other toxic effects	
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Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH       I         FIRE       II         FRACTIVITY       I         Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description:	
573-58-0 Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4- aminonaphthalene-1-sulphonate) <b>Concentration: ≤</b> 100%	
Identification number(s): EC number: 209-358-4	
Index number: 611-027-00-8	
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm.	(Contd. on page 2)
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Seek immediate medical advice.	(Contd. of page 1)
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek médical treatment.	
Information for doctor	
<i>Most important symptoms and effects, both acute and delayed</i> May cause cancer. Suspected of damaging fertility or the unborn child.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	
Carbon monoxide and carbon dioxide	
Sulfur oxides (SOx) Sodium oxide Nationare exides (NOv)	
Nitrogen oxides (NOx) Advice for firefighters Protective equipment:	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
<b>Personal precautions, protective equipment and emergency procedures</b> Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation <b>Environmental precautions:</b> Do not allow material to be released to the environment without proper governmental permits.	
Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Prevention of secondary hazards: No special measures required. 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	
Handling Precautions for safe handling Keep container tightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Open and handle container with care. Information about protection against explosions and fires: No information known.	
Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility:	
Do not store together with acids. Store away from oxidizing agents. Store away from reducing agents.	
Further information about storage conditions: Keep container tightly sealed.	
Store in cool, dry conditions in well sealed containers. <b>Specific end use(s)</b> No further relevant information available.	
8 Exposure controls/personal protection	
Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that require monitoring at the workplace:	
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data	
Exposure controls Personal protective equipment	
General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.	
Remove all solled and contaminated clothing immediately. Wash bands before breaks and at the end of work	
Store protective clothing separately. Maintain an ergonomically appropriate working environment. <b>Breathing equipment:</b> Use suitable respirator when high concentrations are present.	
Recommended filter device for short term use:	to main o if - in
Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to de purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. <b>Protection of hands:</b>	ermine it alf-
Impervious gloves Check protective gloves prior to each use for their proper condition.	

Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Material of gloves** Nitrile rubber, NBR **Penetration time of glove material (in minutes)** 480 **Glove thickness** 0.11 mm **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

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9 Physical and chemical properties			
Information on basic physical and che			
General Information			
Appearance: Form:	Powder		
Odor:	Odorless		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition			
Melting point/Melting range:	>360,°C (>680,°F)		
Boiling point/Boiling range: _Sublimation temperature / start:	Not determined  Not determined		
Flammability (solid, gaseous)	Not determined.		
Ignition temperature:	Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits:	Froduct does not present an explosion nazard.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density:	Not appermined		
Relative density	Not determined.		
Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with			
Water at 20 °C (68 °F):	25 g/l		
Partition coefficient (ń-octanol/water): Viscosity:	พบเ นยเยากแกษน.		
dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
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Reactivity No information known. Chemical stability Stable under recomm	nonded storage conditions		
Thermal decomposition / conditions to	o be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions Re-	acts with strong oxidizing agents		
Conditions to avoid No further relevant Incompatible materials:	information available.		
Acids			
Oxidizing agents			
Reducing agents Hazardous decomposition products:			
Carbon monoxide and carbon dioxide			
Nitrogen oxides			
Sulfur oxides (SOx) Sodium oxide			
11 Toxicological information			
Information on toxicological effects			
	fects of Chemical Substances (RTECS) contains acute toxicity data for this substance.		
LD/LC50 values that are relevant for c	lassification:		
Oral LD50 15200 mg/kg (rat)	. Inite tion		
Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause			
Sensitization: No sensitizing effects kno	own.		
Germ cell mutagenicity: The Registry of	of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.		
Carcinogenicity: May cause cancer.			
No classification data on carcinogenic pr	operties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity:	born shild		
The Registry of Toxic Effects of Chemica	born child. al Substances (RTECS) contains reproductive data for this substance. <b>- repeated exposure:</b> No effects known. <b>- single exposure:</b> No effects known.		
Specific target organ system toxicity -	- repeated exposure: No effects known.		
Aspiration hazard: No effects known.	- single exposure: No effects known.		
Additional toxicological information:	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
Carcinogenic categories			
OSHA-Ca (Occupational Safety & Hea	Ith Administration) Substance is not listed.		
12 Ecological information			
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Toxicity Aquatic toxicity: No further relevant info	ormation available		
Persistence and degradability No furth	er relevant information available.		
Persistence and degradability No furth Bioaccumulative potential No further ro Mobility in soil No further relevant infor	elevant information available.		
Additional ecological information:	mation available.		
General notes:			
Do not allow material to be released to the environment without proper governmental permits.			
Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.			
Avoid transfer into the environment.			
Results of PBT and vPvB assessment			
<b>PBT:</b> Not applicable. <b>vPvB:</b> Not applicable.			
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Other adverse effects No further relevant information available

### 13 Disposal considerations

Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

Recommendation: Disposal must be made according to official regulations.				
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA Class	Not applicable			
Packing group DOT, IMDG, IATA	Not applicable			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information:				
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	-			

#### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms

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Signal word Danger Hazard statements

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

Procautionary statements Procautionary statements P201 Obtain special instructions before use. P281 Use personal protective equipment as required. P202 Do not handle until all safety precautions have been read and understood. P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 P501 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases

Information about limitation of use: Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases. For use only by technically qualified individuals. This substance is subject to a Significant New Use Rule (SNUR) promulgated under Section 5(a)(2) of the Toxic Substances Control Act (TSCA). See 40 CFR 721. This product is being sold for research and development use. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. This substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH). The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use amust be observed.

market and use must be observed.

Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 02/02/2017 / -Abbreviations and acronyms: RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Avlation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transported des marchandises dusgreuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Identification System (Canada) LC50: Lethal concentration, 50 percent VPVB: very Persistent and very Bioaccumulative



## Product name: Congo red

ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IRRC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Carc. 1B: Carcinogenicity, Hazard Category 1B Repr. 2: Reproductive toxicity, Hazard Category 2

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