

Safety Data Sheet per OSHA HazCom 2012

Reviewed of 04/10/2014
1 Identification
Product identifier Product name: Sodium diethyldithiocarbamate trihydrate
Stock number: A15898, L04803
CAS Number: 20624-25-3
EC number:
205-710-6 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 Fax: 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 (866) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
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
GHS07
Signal word Warning
Hāzard statements H302 Harmful if swallowed.
Precautionary statements P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell.
P300 Rinse mouth. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification Not controlled Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY 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: 20624-25-3 Sodium_diethyldithiocarbamate trihydrate
Identification number(s): EC number: 205-710-6
4 First-aid measures
Description of first aid measures
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After sye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.
Information for doctor
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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. (Contd. on page 2

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Product name: Sodium diethyldithio	carbamate trihydrate	
Special hazards arising from the subs If this product is involved in a fire, the foll Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Sodium oxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	atance or mixture lowing can be released:	(Contd. of page 1)
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unprot Ensure adequate ventilation Environmental precautions: Do not allo Methods and material for containment Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.	otected persons away. Ilow product to reach sewage system or any water course. I <b>t and cleaning up:</b> Dispose of contaminated material as waste according to section 13. In special measures required. In and protection equipment.	
Conditions for safe storage, including Storage Requirements to be met by storeroom	e. explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements.	
Information about storage in one com Store away from water/moisture. Store away from oxidizing agents. Further information about storage cor Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well seale Protect from humidity and water. Specific end use(s) No further relevant	nmon storage facility: Inditions: led containers. t 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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.		
9 Physical and chemical properties	3	
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor:	Crystalline White to off-white Not determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	94-102 °C (201-216 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion:	Not determined.	(Contd. on page 3)
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## Product name: Sodium diethyldithiocarbamate trihydrate

Product name: SOCIUM CIETNYICITNIC		
		(Contd. of page 2)
Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.	
Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water). Viscosity: dynamic:	ca 600 g/l : Not determined. Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Water/moisture Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Sodium oxide Nitrogen oxides	mended storage conditions. <b>To be avoided:</b> Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents t information available.	
11 Toxicological information		
Information on toxicological effects Acute toxicity: Harmful if swallowed. The Registry of Toxic Effects of Chemica	al Substances (RTECS) contains acute toxicity data for this substance.	
LD/LC50 values that are relevant for c Oral LD50 1500 mg/kg (rat)	lassification:	
Carcinogenicity: No classification data Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	<ul> <li>irritation</li> <li>own.</li> <li>of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.</li> <li>on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.</li> <li><i>repeated exposure:</i> No effects known.</li> <li><i>single exposure:</i> No effects known.</li> </ul>	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releval	her relevant information available. relevant information available. mation available. quantities to reach ground water, water course or sewage system. <b>t</b>	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. ade 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.	(Contd. on page 4)
		USA USA

	Reviewed on 04/16/2014
Product name: Sodium diethyldithiocarban	nate trihydrate
	(Contd. of page 3)
Transport in bulk according to Annex II of MA	RPOL73/78 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/ GHS label elements The product is classified an	legislation specific for the substance or mixture d labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms	
$\langle \mathbf{U} \rangle$	
GHS07	
Signal word Warning	
Hazard statements H302 Harmful if swallowed.	
Precautionary statements	
P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when usir P301+P312 IF SWALLOWED: Call a POISON CL	ng this product.
P330 Rinse mouth.	
National regulations	ordance with local/regional/national/international regulations.
All components of this product are listed in the U. All components of this product are listed on the C	S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Canadian Domestic Substances List (DSL).
SARA Section 313 (specific toxic chemical list	tings) Substance is not listed
California Proposition 65 Prop 65 - Chemicals known to cause cancer S	ubstance is not listed.
Prop 65 - Developmental toxicity Substance is i Prop 65 - Developmental toxicity female Subst	not listed. tance is not listed
Prop 65 - Developmental toxicity, male Substan	nce is not listed. Iv by technically qualified individuals
Other regulations, limitations and prohibitive i	regulations
The conditions of restrictions according to Ar	regulations ording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. ticle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Substance is not listed.	
Annex XIV of the REACH Regulations (requirin Chemical safety assessment: A Chemical Safe	ng Authorisation for use) Substance is not listed. ty Assessment has not been carried out.
information to ensure proper use and protect the l	supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not in t, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Dep Date of preparation / last revision 11/24/2015 /	partment
DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical S	reuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Substances Sicilar Society) anada) ists (USA) 
CAS: Chemical Abstracts Service (division of the American Chem HMIS: Hazardous Materials Identification System (USA) WHMIS: Worknlace Hazardous Materials Information System (Ca	ical Society)
LC50: Lethal dose, 50 percent	naua)
vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygien	ists (USA)
OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer	
EPA: Environmental Protection Agency (USA)	USA