



1 Identification Product identifier Product name: N-Phenylthiourea Stock number: L06690, 41972 CAS Number: 103-85-5 EC number: 203-151-2 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. Inerrito Fisher Scheman C. 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) Set. GHS06 Skull and crossbones Acute Tox. 1 H300 Fatal 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 GHS06 Signal word Danger Signal word Danger Hazard statements H300 Fatal if swallowed. Precautionary statements P280 Wear protective clothing. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... P302+P350 IF ON SKIN: Gently wash with plenty of soap and water. P330 Rinse mouth. P501 Dispace of entents/contained in generating with local/ragional/acit Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D1A - Very toxic material causing immediate and serious toxic effects 1 Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 4 Health (acute effects) = 41 Flammability = 1 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: 103-85-5 N-Phenvlthiourea Identification number(s): EC number: 203-151-2 4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. After inhalation 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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. (Contd. on page 2)

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After swallowing Do not induce vomiting; immediately call for medical help. 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.	(Contd. of page 1)
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) Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: 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 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. 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: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers. Specific end use(s) 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 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	
Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: White to off-white Odor: Odorless Odor threshold: Not determined. pH-value: Not applicable.	
Change in condition 149-153 °C (300-307 °F) Melfing point/Boiling range: 149-153 °C (300-307 °F) Boiling point/Boiling range: Not determined Sublimation temperature / start: Not determined Flammability (solid, gaseous) Not determined. Ignition temperature: Not determined Decomposition temperature: Not determined	(Contil on any 2)
	(Contd. on page 3) USA

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		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density	Not determined. Not determined Not determined Not applicable. Not determined Not determined.	
Vapor density Evaporation rate Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water): Viscosity:		
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Rea Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Nitrogen oxides	information available.	
11 Toxicological information Information on toxicological effects Acute toxicity: Fatal if swallowed. The Registry of Toxic Effects of Chemica LD/LC50 values that are relevant for c	I Substances (RTECS) contains acute toxicity data for components in this product.	
Oral LD50 3 mg/kg (rat) Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kno Germ cell mutagenicity: The Registry of Carcinogenicity: No classification data Reproductive toxicity: The Registry of Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	irritation irritation wn. f Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance. repeated exposure: No effects known. single exposure: No effects known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inford Additional ecological information: General notes: Do not allow product to reach ground wa Do not allow material to be released to th Danger to drinking water if even small qu Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	er relevant information available. elevant information available. nation available. ter, water course or sewage system. e environment without proper governmental permits. antities leak into the ground.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information		
UN-Number DOT, IMDG, IATA	UN2811	
UN proper shipping name DOT IMDG, IATA	Toxic solids, organic, n.o.s. (N-Phenylthiourea) TOXIC SOLID, ORGANIC, N.O.S. (N-Phenylthiourea)	
Transport hazard class(es) DOT		
Class	6.1 Toxic substances.	(Contd. on page 4)
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Label Class Label IMDG, IATA	6.1 6.1 (T2) Toxic substances 6.1
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	1
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL73/ Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (N-Phenylthiourea), 6.1, I
National regulations All components of this product are listed in the U.S. Enviro All components of this product are listed on the Canadian SARA Section 313 (specific toxic chemical listings) Su California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, Substance is not listed Prop 65 - Developmental toxicity, female Substance is no Information about limitation of use: For use only by technically qualified individuals. This product is subject to the reporting requirements of see Other regulations, limitations and prohibitive regulatio Substance of Very High Concern (SVHC) according to	with local/regional/national/international regulations. onmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Domestic Substances List (DSL). ubstance is not listed. d. not listed. of listed. of listed. ection 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372. ons ons of the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
Other information Employers should use this information only as a suppleme information to ensure proper use and protect the health an conformance with this Material Safety Data Sheet, or in co Department issuing SDS: Global Marketing Department	ent to other information gathered by them, and should make independent judgement of suitability of this nd safety of employees. This information is furnished without warranty, and any use of the product not i ombination with any other product or process, is the responsibility of the user.