

Safety Data Sheet per OSHA HazCom 2012

Reviewed on 04/0s	<i>"</i> 2010
1 Identification	
Product identifier Broduct name: N=(3.5-Dichlorophenyl)thioures	
Product name: N-(3,5-Dichlorophenyl)thiourea Stock number: L12302	
CAS Number:	
107707-33-5 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 Ansar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill Md. 01835-8099	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Four 900-232 4757	
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)	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic 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	
Hāzard statements H301 Toxic if swallowed.	
Precautionary statements P280 Wear protective clothing.	
P280 Wear protective clothing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/	
WHMIS classification D1A - Very toxic material causing immediate and serious toxic effects	
Classification system HMIS ratings (scale 0-4)	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2 RRE 1 Flammability = 1	
Reactivity D 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:	
107707-33-5 N-(3,5-Dichlorophenyl)thiourea	
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 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.	USA –
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(Contd. of page 1)

5

5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foan 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 Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Sulfur oxides (SOx) Hydrogen chloride (HCI) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	n. Water may be ineffective but may be used for cooling exposed containers.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation 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 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling 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 Conditions for sale storage, including any incomparison of storage 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. 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: Not required. Additional information: No data

Exposure controls Personal protective equipment General protective and hygienic measures The usual precationary 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 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. **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

9 Physical and chemical properties

Information on basic physical and cl General Information Appearance:	nemical properties
Form: Color:	Crystalline powder White
Odor: Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	175-179 °C (347-354 °F) Not determined Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined Not determined Not determined Not determined.
Danger of explosion:	Product does not present an explosion hazard.
	(Control on page 3)

(Contd. on page 3) USA

N_(3.5_Dichlorophonyl)thiouroa Dr duct

Page 3/4 Printing date 11/24/2015 Reviewed on 04/09/2010 ٦

Product name: N-(3,5-Dichloropheny	rl)thiourea	
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Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known	information available.	
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	riritation irritation wm. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. • 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 inforn Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releval	er relevant information available. elevant information available. nation available. ne environment without proper governmental permits. uantities to reach ground water, water course or sewage system.	
13 Disposal considerations		
Waste treatment methods	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	Toxic solids, organic, n.o.s. (N-(3,5-Dichlorophenyl)thiourea) TOXIC SOLID, ORGANIC, N.O.S. (N-(3,5-Dichlorophenyl)thiourea)	
IMDG, IATA Transport hazard class(es) DOT		
Class Label	6.1 Toxic substances. 6.1	
Class	6.1 (T2) Toxic substances	. on page 4)

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	Reviewed on 04/09/20
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Label	6.1 (Contd. of page
ĪMDĞ, IATA	
$\langle * \rangle$	
Class	6.1 Toxic substances.
Label	6.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A
Transport in bulk according to Annex II of MARPOL73/78 a	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (N-(3,5-Dichlorophenyl)thiourea), 6.1, III
Prop 65 - Cnemicals known to cause cancer Substance is i Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not I Prop 65 - Developmental toxicity, male Substance is not list Information about limitation of use: For use only by technic Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the The conditions of restrictions according to Article 67 and	, listed
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisa Chemical safety assessment: A Chemical Safety Assessme Other information	sation for use) Substance is not listed. ent has not been carried out.
Employers should use this information only as a supplement to information to ensure proper use and protect the health and sa conformance with this Material Safety Data Sheet, or in combi	to other information gathered by them, and should make independent judgement of suitability of this safety of employees. This information is furnished without warranty, and any use of the product not i bination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RD: Réglement international concernant le transport des marchandises dangereu. IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Asso ICAO: International Civil Aviation Organization	euses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) usociation" (IATA) (ICAO) te (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (I ADR: Accord européen sur le transport des marchandises dangereuses par Route IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society)	ICAO) e (European Agreement concerning the International Carriage of Dangerous Goods by Road)