Revision: 22	08 2010

Printing date 22.08.2010		Revision: 22.08.2010
1 Identification of substance		
Product details		
Trade name Stock number:	N-(2,5-Dichlorophenyl)thiourea	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	
	Benzstrasse 3 D-76185 Karlsruhe / Germany	E-mail: gcat@matthey.com www.alfa-chemcat.com
Informing department:	Product safety department	
Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification	č	
Hazard designation:		
-	Xn Harmful	
Information pertaining to particular dangers for man and environment	R 22 Harmful if swallowed.	
GHS label elements	Danger	
	V Suiger	
Prevention:	H301 - Toxic if swallowed. P280 Wear protective clothing.	
Response:	P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER or doctor/physician.	
3 Composition/information on ingredient	S	
Chemical characterization:		
Designation: (CAS#)	N-(2,5-Dichlorophenyl)thiourea (CAS# 4949-85-3)	
4 First aid measures	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consul	t doctor if a matama
After inhalation	persist.	t doctor if symptoms
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	
After eye contact	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor.	
After swallowing	Seek immediate medical advice.	
5 Fire fighting measures		
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-re	sistant foam.
products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide	
	Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN)	
	Sulphur oxides (SOx) Hydrogen chloride (HCl) Wear self-contained breathing apparatus.	
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.	
6 Accidental release measures Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.	
· · ·	Ensure adequate ventilation Do not allow material to be released to the environment without proper governmenta	al normite
Measures for environmental protection: Measures for cleaning/collecting:	Dispose of contaminated material as waste according to item 13.	a permits.
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment.	
	See Section 13 for information on disposal.	
7 Handling and storage		
Handling Information for safe handling:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.	
Information structure of the state	Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.	
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke.	
Storage Requirements to be met by storerooms and		
containers: Information about storage in one common	No special requirements.	
storage facility: Further information about storage	Store away from oxidizing agents.	
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
8 Exposure controls and personal protec Additional information about design of	τιοπ	
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and havi of at least 100 feet per minute.	ng an average face velocity
Components with critical values that require	·	
monitoring at the workplace: Additional information:	Not required. No data	
Personal protective equipment	The usual processionary magnification should be adhered to in bondling the shareinste	
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments.	
Breadthing and	wash hands during breaks and at the end of the work.	
Breathing equipment: Protection of hands:	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition.	
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also or and varies from manufacturer to manufacturer.	on turther marks of quality
Penetration time of glove material	Impervious gloves Not determined	
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Revision: 22.08.2010

Trade many N (2 5 Dichlorophony/)thiou	Nevision. 22.00.2010	
Trade name N-(2,5-Dichlorophenyl)thiourea		
Eye protection: Body protection:	Safety glasses (Contd. of page 1) Protective work clothing.	
9 Physical and chemical properties:		
General Information		
Form: Colour: Smell:	Crystalline powder White Odourless	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	192-195°C Not determined Not determined	
Flash point:	Not applicable	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Danger of explosion:	Product is not explosive.	
Critical values for explosion: Lower: Upper:	Not determined Not determined	
Steam pressure:	Not determined	
Density Solubility in / Miccibility with	Not determined	
Solubility in / Miscibility with Water:	Insoluble	
10 Stability and reactivity Thermal decomposition / conditions to be avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx) Hydrogen chloride (HCI) Possibly Hydrogen cyanide (HCN)	
11 Toxicological information Acute toxicity:		
LD/LC50 values that are relevant for classifi	ication:	
Oral LD50 300 mg/kg (rat)		
Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	May cause irritation May cause irritation No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
12 Ecological information:		
12 Ecological information: Additional ecological information: General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.	
13 Disposal considerations		
Product: Recommendation	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.	
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.	
14 Transport information		
Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)	
ADR/RID-GGVS/E Class:	6.1 (T2) Toxic substances.	
Kemler Number: UN-Number:	60 ` ´ 2811	
Packaging group: Label	IIÎ 6.1	
Laber Designation of goods: Limited quantities (LQ) Transport category	2811 TOXIC SOLID, ORGANIC, N.O.S. (N-(2,5-Dichlorophenyl)thiourea) LQ9	
Tunnel restriction code	2 E	
Maritime transport IMDG/GGVSea:		
IMDG/GGVSea Class: UN Number: Label Packaging group:	6.1 2811 6.1 III	
r donaging group.	(Contd. on page 3)	

Trade name N-(2,5-Dichlorophenyl)thiourea		
	(Contd. of page 2)	
EMS Number: Marine pollutant: Correct technical name:	F-A,S-A No TOXIC SOLID, ORGANIC, N.O.S. (N-(2,5-Dichlorophenyl)thiourea)	
Air transport ICAO-TI and IATA-DGR:		
ICAO/IATA Class: UN/ID Number: Label Packaging group: Correct technical name:	6.1 2811 6.1 III TOXIC SOLID, ORGANIC, N.O.S. (N-(2,5-Dichlorophenyl)thiourea)	
UN "Model Regulation":	UN2811, TOXIC SOLID, ORGANIC, N.O.S., 6.1, III	
15 Regulatory information Designation according to EC guidelines: Code letter and hazard designation of product:	Xn Harmful	
Risk phrases:	22 Harmful if swallowed.	
Safety phrases:	36 Wear suitable protective clothing.	
National regulations		
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	
16 Other information: Employers should use this information only as this information to ensure proper use and prot not in conformance with this Material Safety D	s a supplement to other information gathered by them, and should make independent judgement of suitability of tect the health and safety of employees. This information is furnished without warranty, and any use of the product Data Sheet, or in combination with any other product or process, is the responsibility of the user.	
Department issuing data specification shea Contact: Abbreviations and acronyms:	et: Health, Safety and Environmental Department. Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: Tit: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) LCSO: Lethal dose, 50 percent	