	according to 1907/2006/EC, Article 31	
Printing date 16.07.2010		Revision: 16.07.2010
1 Identification of substance		
Product details		
Trade name	2-Cyanothioacetamide	
Stock number:	A15436, L07597	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3	E-mail: gcat@matthey.com
	D-76185 Karlsruhe / Germany	www.alfa-chemcat.com
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz	
Effergency mornation.	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:		
ndzaru uesiyilation.	Xn Harmful	
Information pertaining to particular dangers		
Information pertaining to particular dangers for man and environment	R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.	
GHS label elements	R 36/37/38 Irritating to eyes, respiratory system and skin.	
	Warning	
	H302 - Harmful if swallowed.	
	H312 - Harmful in contact with skin. H332 - Harmful if inhaled.	
	H315 - Causes skin irritation.	
	H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.	
Prevention: Response:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
Response:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Re and easy to do. Continue rinsing.	move contact lenses, if present
	P321 and easy to do. Continue rinsing. P321 Specific treatment (see on this label).	
Storage:	P405 Store locked up.	d and a substance
Disposal:	P501 Dispose of contents/container in accordance with local/regional/national/intern	national regulations.
3 Composition/information on ingredients	S	
Chemical characterization:		
Designation: (CAS#)	2-Cyanothioacetamide (CAS# 7357-70-2); 100%	
4 First aid measures		
General information	Instantly remove any clothing soiled by the product.	1
	Remové breathing ápparatus only aftér soiled clothing has been completely removed In case of irregular breathing or respiratory arrest provide artificial respiration.	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consul Seek immediate medical advice.	It doctor if symptoms persist.
After skin contact	Instantly wash with water and soap and rinse thoroughly.	
After eye contact	Sook immodiate medical advice	
After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor. Do not induce vomiting; instantly call for medical help. 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 Sulphur oxides (SOx)	
	Hydrogen sulphide Nitrogen oxides (NOx)	
	Hydrogen cyanide (HCN)	
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	
Measures for environmental protection:	Do not allow material to be released to the environment without proper governmental Dispose of contaminated material as waste according to item 13.	l permits.
Measures for cleaning/collecting:	Ensure adequate ventilation	
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. Ensure good ventilation/exhaustion at the workplace.	
Information about protoction against	Open and handle container with care.	
Information about protection against explosions and fires:	The product forms flammable fumes when heated.	
Storage		
Requirements to be met by storerooms and containers:	No special requirements.	
Information about storage in one common		
storage facility:	Store in the dark. Do not store together with oxidizing and acidic materials.	
Eurther information about storage	Store away from strong bases.	
Further information about storage conditions:	Keep container tightly sealed.	
	Store in cool, dry conditions in well sealed containers. Protect from the effects of light.	
	Store in a locked cabinet or with access restricted to technical experts or their assist	itants.
		GB (Contd. on page 2

Revision: 16.07.2010

Trade name 2-Cyanothioacetamide

Trade name 2-Cyanothioacetamide	(Cantel of page 1)
0 Furner controls and neveral protect	(Contd. of page 1)
8 Exposure controls and personal protect	tion
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.
Components with critical values that require monitoring at the workplace: Additional information:	Not required. No data
Personal protective equipment 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. Wash hands during breaks and at the end of the work.
Breathing equipment: Eye protection:	Store protective clothing separately. Avoid contact with the eyes and skin. Use breathing protection with high concentrations. Safety classes
Body protection:	Protective work clothing.
9 Physical and chemical properties: General Information	
Form:	Crystalline
Colour: Smell:	Yellow Dark orange Not determined
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	121-123°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	Not determined
avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Light Acids Oxidizing agents Bases Contact with acids liberates very toxic gas. Carbon monoxide and carbon dioxide Sulphur oxides (SOX) Nitrogen oxides (NOX) Hydrogen sulphide Hydrogen cyanide (prussic acid)
11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Irritant for skin and mucous membranes. Irritant effect. No sensitizing effect known. Danger by skin resorption. 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:	
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	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
14 Transport information Land transport ADR/RID and GGVS/GGVE (cr	oss-border/domestic)
ADR/RID-GGVS/E Class: Kemler Number:	6.1 (T2) Toxic substances. 60
	(Contd. on page 3) GB

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 16.07.2010

Revision: 16.07.2010

Trade name 2-Cyanothioacetamide		
	(Contd. of page 2)	
UN-Number: Packaging group: Label Designation of goods: Limited quantities (LQ) Transport category Tunnel restriction code	3439 III 6.1 3439 NITRILES, TOXIC, SOLID, N.O.S. (2-Cyanothioacetamide) LQ9 2 E	
Maritime transport IMDG/GGVSea:		
$\langle \rangle$		
IMDG/GGVSea Class: UN Number:	6.1 3439	
Label Packaging group:	6.1 III	
Marine pollutant: Correct technical name:	No NITRILES, TOXIC, SOLID, N.O.S. (2-Cyanothioacetamide)	
Air transport ICAO-TI and IATA-DGR:		
ICAO/IATA Class:	6.1	
UN/ID Number: Label	3439 6.1	
Packaging group: Correct technical name:	III NITRILES, TOXIC, SOLID, N.O.S. (2-Cyanothioacetamide)	
UN "Model Regulation":	UN3439, NITRILES, TOXIC, SOLID, 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:	20/21/22 Harmful by inhalation, in contact with skin and if swallowed. 36/37/38 Irritating to eyes, respiratory system and skin.	
Safety phrases:	9 Keep container in a well-ventilated place. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37 Wear suitable protective clothing and gloves.	
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 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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.		
Department issuing data specification sheet: Contact: Abbreviations and acronyms:		
	IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: 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) GB-	