	Safety Data Sheet according to 1907/2006/EC, Article 31	, i i i i i i i i i i i i i i i i i i i
Printing date 13.07.2010	according to 1907/2000/EC, Article ST	Revision: 13.07.2010
1 Identification of substance		
Product details	Oppose silisida	
Trade name Stock number:	Copper silicide 12844	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	E maily apat @ matthey com
	Benzstrasse 3 D-76185 Karlsruhe / Germany	E-mail: gcat@matthey.com www.alfa-chemcat.com
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:	Xi Irritant	
Information pertaining to particular dangers for man and environment	R 36/37/38 Irritating to eyes, respiratory system and skin.	
GHS label elements	Warning	
	H315 - Causes skin irritation.	
	H319 - Causes serious eve irritation	
Prevention: Response:	 H335 - May cause respiratory irritation. 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 and easy to do. Continue rinsing. 	s. Remove contact lenses, if present
Storage: Disposal:	P321 Specific treatment (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ir	nternational regulations.
3 Composition/information on ingredients		
Chemical characterization: Designation: (CAS#)	S Copper silicide (CAS# 12159-07-8), 100%	
4 First aid measures		
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Co Seek immediate medical advice.	unsult doctor if symptoms persist.
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor Seek immediate medical advice.	r.
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 alcoho	ol-resistant foam.
products of combustion or flue gases: Protective equipment:	Metal oxide Wear self-contained breathing apparatus.	
	Wear full protective suit.	
6 Accidental release measures		
Person-related safety precautions: Measures for environmental protection:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governme	
Measures for environmental protection: Measures for cleaning/collecting: Additional information:	Ensure adequate ventilation.	ental permits.
	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.	
· · · · · · · · · · · · · · · · · · ·	Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.	
Information about protection against explosions and fires: Storage	No special measures required.	
Requirements to be met by storerooms and containers:	No special requirements.	
Information about storage in one common storage facility:	Not required.	
Further information about storage conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
8 Exposure controls and personal protect	tion	
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and least 100 feet per minute.	having an average face velocity of at
Components with critical values that require		
monitoring at the workplace:	Copper mg/m3	
	mg/m3 ACGIH TLV 1 (dust, mist) 0.2 (fume)	
	Austria MAK 1 0.1 (fume)	

Austria MAK 1 Belgium TWA 0.2 (fume) Denmark TWA 0.2 (fume) Tinland TWA 0.2 (fume) 1 (dust) France VME 0.1 (fume) 1 (dust)

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	1; 2-STEL (dust)
	Germany MAK 0.1 (fume) 1 (dust)
	Hungary TWA ` ´0.2; 0.4-STEL (dust) Korea TLV1 (dust_mist)
	0.2 (fume) Netherlands MAC-TGG 1 (dust)
	0.1 (fume)
	Poland TWA 0.1; 0.3-STEL (fume) 1; 2-STEL (dust)
	Russia 1-STEL (dust)
	Sweden NGV 0.2 (resp. dust) 1 (total dust)
	Switzerland MAK-W 0.1; 0.2-KZG-W (fume)
	1: 1-KZG-W
	United Kingdom TWA 0.2 (fume) 1; 2-STEL (dust, mist) 1; 3-STEL
	USA PEL TWÁ 0.1 (fume) 1 (dust, mist)
Additional information:	No data
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.
	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.
	Instantly remove any solled and impregnated garments. Wash bands during breaks and at the end of the work
	Avoid contact with the eyes and skin.
Breathing equipment: Eye protection:	Use breathing protection with high concentrations. Safety glasses
	Face protection
Body protection:	Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form:	Solid material.
Colour: Smell:	Silver-coloured Odourless
Change in condition	
Melting point/Melting range:	825°C
Boiling point/Boiling range: Sublimation temperature / start:	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
Solubility in / Miscibility with	
Water:	Insoluble
10 Stability and reactivity	
Thermal decomposition / conditions to be	
avoided:	No decomposition if used and stored according to specifications.
Materials to be avoided: Dangerous reactions:	None known. No dangerous reactions known
Dangerous products of decomposition:	Metal oxide
11 Toxicological information	
Acute toxicity:	
Primary irritant effect:	
on the skin: on the eye:	Irritant for skin and mucous membranes. Irritant effect.
Sensitization:	No sensitizing effect known.
Additional toxicological information:	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:	Generally not hazardous for water.
	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.

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14 Transport information		
Land transport ADR/RID and GGVS/GGVE (c ADR/RID-GGVS/E Class:	ross-border/domestic) None	
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: Marine pollutant:	None No	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None	
Transport/Additional information:	Not dangerous according to the above specifications.	
15 Regulatory information		
Designation according to EC guidelines:		
Code letter and hazard designation of product:	Xi Irritant	
Risk phrases:	36/37/38 Irritating to eyes, respiratory system and skin.	
Safety phrases:	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.37 Wear suitable gloves.60 This material and its container must be disposed of as hazardous waste.	
National regulations		
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.	
Water hazard class:	Generally not hazardous for water.	
16 Other information: Employers should use this information only as a sinformation to ensure proper use and protect the conformance with this Material Safety Data Sheet Department issuing data specification sheet: Contact: Abbreviations and acronyms:	supplement to other information gathered by them, and should make independent judgement of suita health and safety of employees. This information is furnished without warranty, and any use of the part, or in combination with any other product or process, is the responsibility of the user. Health, Safety and Environmental Department. Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Society and Environment le transport des marchandises dangereuses par chemin de fer (Regulations Concertant Transport of Dangerous Goods by Rail) INDE: Reglement international Maritime Code for Dangerous Goods IATA: 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-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)

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