	according to 1907/2006/EC, Article 31	
Printing date 14.07.2010		Revision: 14.07.2010
1 Identification of substance		
Product details		
Trade name	Europium (III) oxide	
Stock number:	44667	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	- "
l	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	
<u> </u>	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:	void	
Information pertaining to particular dangers for man and environment	Not applicable	
GHS label elements	Void	
3 Composition/information on ingredients	· · · · · · · · · · · · · · · · · · ·	
Chemical characterization:	3	
Designation: (CAS#)	Europium oxide (CAS# 1308-96-9): 100%	
Identification number(s): EINECS Number:	215-165-6	
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4 First aid measures		.
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult do Seek immediate medical advice.	octor if symptoms persist.
After skin contact	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 medical treatment.	
5 Fire fighting measures		
	Use fire fighting measures that suit the environment.	
Suitable extinguishing agents Special hazards caused by the material, its		
products of combustion or flue gases:	Can be released in case of fire: Metal oxide	
Protective equipment:	Wear self-contained breathing apparatus.	
<u> </u>	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 governmental per	- mita
Measures for environmental protection: Measures for cleaning/collecting:	Collect mechanically.	irmits.
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment.	
l	See Section 13 for information on disposal.	
7 Handling and storage		
Handling		
Information for safe handling:	Keep containers tightly sealed.	
1	Store in cool, dry place in tightly closed containers. No special precautions necessary if used correctly.	
Information about protection against		
explosions and fires: Storage	The product is not flammable	
Storage Requirements to be met by storerooms and		
containers: Information about storage in one common	No special requirements.	
storage facility:	Store away from water.	
Further information about storage	Store away from oxidizing agents.	
conditions:	This product is hygroscopic.	
l	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
	Protect from humidity and keep away from water.	
8 Exposure controls and personal protect		
Additional information about design of		
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having a	an average face velocity of at
Components with critical values that require	least 100 feet per minute.	
Components with critical values that require monitoring at the workplace:	Not required.	
Additional information:	No data	
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.	
General protocity and the second	Keep away from foodstuffs, beverages and food.	
1	Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.	
Breathing equipment:	Use breathing protection with high concentrations.	
Protection of hands: Material of gloves	Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on fu	urther marks of quality and
	varies from manufacturer to manufacturer.	
Eye protection: Body protection:	Safety glasses Protective work clothing.	
9 Physical and chemical properties:		
General Information		
Form: Colour:	Powder Light red	
		(Contd. on page 2)

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

Printing date 14.07.2010

Trade name Europium (III) oxide

	(Contd. of page 1
Smell:	Odourless
Change in condition Melting point/Melting range:	2291°C
Boiling point/Boiling range: Sublimation temperature / start:	4118°C Not determined
Flash point:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion: Critical values for explosion:	Product is not explosive.
Lower: Upper:	Not determined Not determined
Steam pressure:	Not determined
Density at 20°C Solubility in / Miscibility with	7.42 g/cm <sup>3</sup>
Water:	Insoluble
0 Stability and reactivity	
Thermal decomposition / conditions to be	No decomposition if used and stand constations to an edited into
avoided: Materials to be avoided:	No decomposition if used and stored according to specifications. Water/moisture
Dangerous reactions:	Oxidizing agents No dangerous reactions known
Dangerous products of decomposition:	Metal oxide
1 Toxicological information	
Acute toxicity: LD/LC50 values that are relevant for classified	cation:
Oral LD50 >5000 mg/kg (rat)	
Primary irritant effect: on the skin:	May cause irritation
on the eye: Sensitization:	Maý cause irritation 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.
2 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.
3 Disposal considerations	
Product: Recommendation	Consult state, local or national regulations for proper disposal
	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.
4 Transport information	verse herder(demostic)
Land transport ADR/RID and GGVS/GGVE ( ADR/RID-GGVS/E Class:	None
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:	None
Marine pollutant:	No
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None
Transport/Additional information:	Not dangerous according to the above specifications.
5 Regulatory information	
Designation according to EC guidelines:	Observe the normal safety regulations when handling chemicals The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
National regulations	
Information about limitation of use:	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 information to ensure proper use and protect the conformance with this Material Safety Data Shee	supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not in et, or in combination with any other product or process, is the responsibility of the user.
Department issuing data specification sheet	: Health, Safety and Environmental Department.
Contact: Abbreviations and acronyms:	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: Règlement 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-DRS: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
	ICAC: International Civil Aviation Organization ICAC-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
	Zachariah HÓit 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 Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Icivil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent
	LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent
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