Revision: 13.07.2010

Printing date 13.07.2010	Revision. 13.07.2010
1 Identification of substance	
Product details	
Trade name	Lutetium (III) carbonate
Stock number:	14569
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com
	Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany www.alfa-chemcat.com
Informing department:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz
Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240
2 Hazards identification	
Hazard designation: Information pertaining to particular dangers	void
Information pertaining to particular dangers for man and environment GHS label elements	Not applicable
GHS label elements	Void
3 Composition/information on ingredients	
Chemical characterization: Designation: (CAS#)	Lutatium (III) parhanata hudrata (CAS# 2) 100%
Identification number(s):	Lutetium (III) carbonate, hydrate (CAS# ?), 100%
EINECS Number:	227-586-2
4 First aid measures	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
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 eve for several minutes under running water. Then consult doctor.
After swallowing	Seek medical treatment.
5 Fire fighting measures	
Suitable extinguishing agents	CO2, extinguishing powder or water jet. Fight larger fires with water jet.
Special hazards caused by the material, its	
products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide (CO)
Protoctive convinuents	Metal oxide
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.
6 Accidental release measures	
	Wear protective equipment. Keen upprotected persons away
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Measures for environmental protection: Measures for cleaning/collecting:	Do not allow material to be released to the environment without proper governmental permits. Collect mechanically.
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. No special precautions necessary if used correctly.
Information about protection against	
explosions and fires: Storage	No special measures required.
Requirements to be met by storerooms and	
containers: Information about storage in one common	No special requirements.
storage facility:	Do not store together with acids. Store away from water.
Further information about storage	
conditions:	This product is hygroscopic. Protect from humidity and keep away from water.
	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 having an average face velocity of at
toonnour oyotemo.	least 100 feet per minute.
Components with critical values that require	Natroquirad
monitoring at the workplace: Additional information:	Not required. No data
Personal protective equipment	The second se
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:	Use breathing protection with high concentrations.
Eye protection: Body protection:	Safety glasses' Protective work clothing.
9 Physical and chemical properties:	
General Information	On stalling
Form: Colour:	Crystalline White
Smell:	Odourless
	(Contd. on page 2) GB

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

Trade name Lutetium (III) carbonate		
(Contd. of page 1)		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	>500°C (decomposes) Not determined Not determined	
Flash point:	Not applicable	
Inflammability (solid, gaseous)	Product is not inflammable.	
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: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Acids Water/moisture No dangerous reactions known Carbon monoxide and carbon dioxide Metal oxide	
11 Toxicological information Acute toxicity: 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: 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.	
14 Transport information		
Land transport ADR/RID and GGVS/GGVE (cr	oss-border/domestic)	
ADR/RID-GGVS/E Class:	None	
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: Marine pollutant:	None No	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	New	
ICAU/IA I A Class:	None	
Transport/Additional information:	Not dangerous according to the above specifications.	
15 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: Water hazard class:	For use only by technically qualified individuals. Generally not hazardous for water.	
information to ensure proper use and protect the h conformance with this Material Safety Data Sheet	upplement to other information gathered by them, and should make independent judgement of suitability of this nealth and safety of employees. This information is furnished without warranty, and any use of the product not in , or in combination with any other product or process, is the responsibility of the user.	
Department issuing data specification sheet: Contact: Abbreviations and acronyms:	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: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Martime Code for Dangerous Goods IATA: International Martime Code for Dangerous Goods IATA: International Martime Code for Dangerous Goods IATA: International Air Transport Association IATA-DCR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAC: International 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) GB	