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Printing date 13.07.2010 Revision: 13.07.2010

1 Identification of substance

Product details

Trade name Ytterbium oxide

Stock number:

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG Benzstrasse 3

D-76185 Karlsruhe / Germany

Product safety department.

Informing department: 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 for man and environment

GHS label elements

void

Not applicable

Void

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#) Identification number(s):

Ytterbium oxide (CAS# 1314-37-0), 100%

EINECS Number: 215-234-0

4 First aid measures

After skin contact

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice

Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment. After eye contact After swallowing

5 Fire fighting measures

Suitable extinguishing agents Protective equipment:

Use fire fighting measures that suit the environment.

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 governmental permits.

Measures for environmental protection:

Measures for cleaning/collecting: Additional information:

Do not allow material to be released to the environment whereas, Collect mechanically.

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:

The product is not flammable

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 Requirements to be met by storerooms and containers:

Information about storage in one common storage facility: Further information about storage

conditions:

No special requirements.

Store away from oxidizing agents.

This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

Additional information about design of technical systems:

Breathing equipment: Eye protection: Body protection:

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:

Personal protective equipment General protective and hygienic measures

Not required. No data

The usual precautionary measures should be adhered to in handling the chemicals.

Reep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Use breathing protection with high concentrations.
Safety glasses
Protective work clothing.

9 Physical and chemical properties:

General Information

Form: Powder Colour: White Smell: Odourless

Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Flash point: Not applicable

Inflammability (solid, gaseous) Product is not inflammable

(Contd. on page 2)

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

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Trade name <i>Ytterbium oxide</i>		
		(Contd. of page 1)
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 at 20°C	9.17 g/cm³	
Solubility in / Miscibility with Water:	Insoluble	

10 Stability and reactivity

Thermal decomposition / conditions to be

avoided: Materials to be avoided:

No decomposition if used and stored according to specifications.

Oxidizing agents
Carbon dioxide
No dangerous reactions known Dangerous reactions:

Dangerous products of decomposition: None known.

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye: Sensitization:

Powder: irritant effect Powder: irritant effect

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 Additional toxicological information:

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

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.

None

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class:
None

Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:

Marine pollutant:

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:

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 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:

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 Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: 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)

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