Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.07.2013 Revision: 28.02.2007

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Cerium(III) acetate hydrate

Trade name Stock number: CAS Number: 206996-60-3

EC number: 208-654-0

1.2 Relevant identified uses of the substance or mixture and uses advised against.

Sign Scientific research and developr SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b Zeppelinsti. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com

www.alfa.com
www.alfa.com
product safety Tel + +049 (0) 7275 988687-0
Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)
Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240 Informing department: 1.4 Emergency telephone number:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant

R37/38-41: Irritating to respiratory system and skin. Risk of serious damage to eyes. Information concerning particular hazards for human and environment: Not applicable

Other hazards that do not result in classification No information known.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms Signal word Hazard statements

GHS05, GHS07

Danger
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
Avoid breathing du

Precautionary statements

H335 May cause respiratory irritation.

Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

The substance is classified and labelled according to the CLP regulation.

regulations.

2.3 Other hazards Results of PBT and vPvB assessment

PRTvPvB:

Not applicable. Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: 206996-60-3 Cerium(III) acetate hydrate

Identification number(s): EC number: 208-654-0

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

persist. Seek immediate medical advice.

After skin contact 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 4.2 Most important symptoms and effects,

both acute and delayed
4.3 Indication of any immediate medical
attention and special treatment needed

No further relevant information available No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the

substance or mixture

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Metal oxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear full protective suit. Protective equipment:

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Do not allow product to reach sewage system or water bodies.

Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or water bodies.

Do not allow to enter the ground/soil.

6.3 Methods and material for containment

and cleaning up: Prevention of secondary hazards: 6.4 Reference to other sections

6.2 Environmental precautions:

Ensure adequate ventilation. No special measures required.

See Section 7 for information on safe handling See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions 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 protection against explosions and fires:

No information known.

No special requirements.

7.2 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and

containers:

Information about storage in one common storage facility:

Further information about storage

conditions:

Store away from oxidizing agents.

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

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.

8.1 Control parameters
Components with critical values that require

monitoring at the workplace: Additional information:

Not required.

No data

8.2 Exposure controls

Personal protective equipment General protective and hygienic measures

Breathing equipment: Protection of hands:

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. Avoid contact with the skin. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations. 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 further marks of quality and varies from manufacturer to manufacturer. Impervious gloves

Impervious gloves

Material of gloves Penetration time of glove material Not determined

Eye protection:

Body protection:

Tightly sealed safety glasses.

Face protection
Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Form: Smell:

Crystalline Not determined Odour threshold: Not determined pH-value: Not applicable.

Change in condition

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

Flash point: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Not applicable Not determined. Not determined Not determined Not determined.

Danger of explosion:

Critical values for explosion: Lower:

Not determined Upper: Not determined Steam pressure: Density Not applicable. Not determined Relative density
Vapour density
Evaporation rate
Solubility in / Miscibility with Not determined. Not applicable. Not applicable. Not determined

Water: Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic:

Not applicable. Not applicable.

kinematic:

Product is not explosive.

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(Contd. of page 2) 9.2 Other information No further relevant information available

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be

10.3 Possibility of hazardous reactions 10.5 Incompatible materials:

10.6 Hazardous decomposition products:

No information known.

Stable under recommended storage conditions.

No decomposition if used and stored according to specifications.

No dangerous reactions known Oxidizing agents

Carbon monoxide and carbon dioxide Metal oxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD/LC50 values that are relevant for classification:

Skin irritation or corrosion:

Eye irritation or corrosion:

Sensitization: Germ cell mutagenicity: Carcinogenicity:

Reproductive toxicity: Specific target organ system toxicity - repeated exposure:

Specific target organ system toxicity - single exposure:

Additional toxicological information:

No effects known.

No data

Causes skin irritation. Irritant effect.

Causes serious eye damage. No sensitizing effect known. No effects known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

No effects known.

No effects known.

May cause respiratory irritation.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
12.2 Persistence and degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil

Additional ecological information: General notes:

No further relevant information available. No further relevant information available. No further relevant information available.

No further relevant information available.

Do not allow material to be released to the environment without proper governmental permits. 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.

Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment PBT:

vPvB: 12.6 Other adverse effects

Not applicable.

Not applicable. No further relevant information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

ADR, IMDG, IATA 14.2 UN proper shipping name ADR, IMDG, IATA None

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class

UN-Number

Packing group ADR, IMDG, IATA

14.5 Environmental hazards:

None

None

None Not applicable Not applicable

14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC

Code

Not applicable. Transport/Additional information: Not dangerous according to the above specifications.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical

Substances

Standard for the Uniform Scheduling of Drugs and Poisons

National regulations

Substance is not listed. Substance is not listed.

Information about limitation of use:

Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Water hazard class:
Other regulations, limitations and prohibitive regulations
ELINCS (European List of Notified Chemical

Substances)
Substances of very high concern (SVHC)
according to REACH, Article 57
REACH - Pre-registered substances

Substance is not listed.

Substance is not listed. Substance is not listed.

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15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. (Contd. of page 3)

SECTION 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:
Abbreviations and acronyms:

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