Siemens Healthcare GmbH

Safety Data Sheet
According to regulation (EC) 1907/2006 (REACH)

Trade name: UFC (ultra fast ceramics)
Material-no.: 4008863
Revision date: 04.04.2016
Print date: 04.04.2016

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation: UFC (ultra fast ceramics)
REACH Registration No: Not registered.

Material - no: 4008863

1.2 Use of the substance/preparation: Ceramics for detectors.
1.2.1 Identified use(s): Ceramics for detectors.
1.2.2 Operational area(s): Computed tomography.

1.3 EC market placer (manufacturer, importer or distributor):
Siemens Healthcare GmbH
Siemensstr. 1
91301 Forchheim

E-Mail (competent person): inge.bartholomie@siemens.com
Information contact: +49 9131 846125

1.4 EMERGENCY TELEPHONE: +44 (0) 208 762 8322.

2. HAZARDS IDENTIFICATION

Classification according to the CLP-Regulation 1272/2008 (GHS):

2.1 Health hazards and environmental hazards:
EUH032 Contact with acids liberates very toxic gas.

2.2 Hazard statements: EUH032.
2.3 Labelling (EU-GHS): None.
2.4 Hazardous component for labelling: None.
2.5 Signal word: None.
2.6 Special labelling for particular preparations: None.
2.7 Precautionary statements: None.

2.2 Information pertaining to special dangers for human and environment:
During mechanical treatment H₂S-gases may occur.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization (substance): Digadoliniumdioxidsulfide with doting substances which must not be considered due to their low quantities.
Classification: None.
H-phrases: EUH032.
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Material-no.: 4008863

Chemical formula: Gd₂O₂S
CAS-No.: 12339-07-0
Einecs -No.: 235-598-4

Hazard(ous) impurity(ies): None.

3.2 Additional information: None.

4. FIRST AID MEASURES

4.1 General information: Remove contaminated clothes.
4.2 In case of inhalation: Remove to fresh air. If nausea occurs, seek medical assistance.
4.3 In case of skin contact: Wash thoroughly with large amounts of water and soap.
4.4 In case of eye contact: Flush with plenty of water while holding eyelids apart. If irritations occur, seek medical assistance.
4.5 In case of ingestion: Drink plenty of water. Seek medical assistance.
4.6 Self-protection of the first aider: Avoid skin contact.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: Water, foam, dry powder, carbone dioxide (CO₂). Bring into agreement with surrounding area.
5.2 Extinguishing media which must not be used for safety reasons: None.
5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: The substance is not combustible. In case of fire there may arise sulphuroxides.
5.4 Special protective equipment for fire-fighters: Wear self-contained breathing apparatus.
5.5 Additional information: Do not let fire water enter into surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Avoid skin and eye contact.
6.2 Environmental precautions: Do not let enter into sewage system, surface water or soil.
6.3 Methods for cleaning up: Take up dry and avoid the generation of dust. Clean after with water.
6.4 Additional information: None.

7. HANDLING AND STORAGE

7.1 Handling: Use hood during mechanical treatment.
7.1.1 Advices on safe handling: Avoid generation of dust.
7.1.2 Technical measures: Use hood during mechanical treatment.
7.1.3 Specific requirements or handling rules: None.
7.1.4 Precaution against fire and explosion: Not combustible.
7.1.5 Further information: None.
7.2 Storage:
7.2.1 Technical measures and storage conditions: No special requirements.
7.2.2 Packaging materials: Glas, plastic materials.
7.2.3 Requirements for storage rooms and vessels: No special requirements.
7.2.4 Hints on storage assembly: Apart from acids.
7.2.5 Further information on storage conditions: None.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values: None.
8.2 Exposure controls:
8.2.1 Occupational exposure controls:
Handling the detector ceramic needs no exposure control.
8.2.1.1 Technical measures to prevent exposure:
Use hood if dust occurs and during mechanical treatment.
8.2.1.2 Personal protection equipment:
Respiratory protection: only if dust occurs: FFP1 dust masc.
Hand protection: gloves out of nitril rubber, neopren or latex.
Eye protection: only if dust occurs: protective googles.
Body protection: only if dust occurs: protective clothes.

8.2.2 Environmental exposure controls
Water (incl. sewage plant): Do not let enter into surface water or groundwater.
Soil: Do not let enter into soil.
8.2.3 Exposure controls for consumer use and articles: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:
Physical state: solid substance
Colour: yellow
Odour: odourless.
9.2 Important health, safety and environmental information:
9.2.1 Safety relevant basic data:
pH (20 °C): n.a.
Melting point/range (°C): not determined
Freezing point/range (°C): not determined
Boiling point/range (°C): not determined
Flash point (°C): not flammable
Ignition temperature (°C): not inflammable
Vapour pressure (°C): none
Density (g/cm³): not determined
Water solubility (20°C in g/l): not soluble
Dust explosion hazard: none
9.2.2 Substance groups relevant properties: None.
10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Stable by intended use.
10.2 Materials to avoid: Acids.
10.3 Hazardous decomposition products: At high temperatures sulphuroxides may occur.

11. TOXIKOLOGICAL INFORMATION

11.1 Acute toxicity:
The data available are not sufficient for a complete toxicological assessment.

11.2 Irritant and corrosive effects:
No irritant or corrosive effects known.

11.3 Sensitization:
In case of skin contact and inhalation: no sensitising effects known.

11.4 Carcinogenicity, mutagenicity and toxicity for reproduction
No cancerogenity, mutagenity and toxicity potential known.

11.5 Experiences made in practice
Observations relevant to classification: None.

11.5 General remarks:
Attend the common instructions for handling with chemical materials.

12. Ecological information

12.1 Ecotoxicity:
There are no data available to rate the ecological effects of this product.

12.2 Persistence and degradability: Not determined.

12.3 Biodegradation: Methods to determine biodegradation are not available for inorganic compounds.

12.4 Bioaccumulative potential: A bioaccumulation is not expected.

12.5 Longterm-Ecotoxicity: Not determined.

12.6 Other adverse effects: Not known.

12.7 Further ecological information: Do not allow to enter into sewage system, groundwater or soil.

13. DISPOSAL CONSIDERATIONS

13.1 Appropriate disposal / Product:
The preparation is dangerous waste according to directive 2008/98/EG and needs special treatment, e.g. appropriate combustor. Obey the local regulations.

13.2 Waste code(s) / waste designation(s) according to EWC / AVV: According to EWC, depending on source area.
13.3 Appropriate packaging: AS according to EWC 150110*, packaging with residues of dangerous substances.

14. TRANSPORT INFORMATION

Land transport (ADR/RID/GGVSE)/ Sea transport (IMDG-Code/GGVSee)/ Air transport (ICAO-IATA/DGR):
No dangerous good according to transport regulations.

15. REGULATORY INFORMATION

15.1 EU regulations
15.1.1 Chemical Safety Assessment: There is no chemical safety assessment.
15.1.4 Other EU regulations:
Information according to guideline 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline): No volatile organic compound.

15.2 National regulations (Germany):
15.2.1 Restrictions of occupation: None.
15.2.2 Störfallverordnung (12. BIMSchV): n.a.
15.2.3 Wassergefährdungsklasse (water hazard class): 1 (self classification).
15.2.4 Technische Anleitung Luft (TA – Luft): n.a.
15.2.5 Other regulations, restrictions and prohibition regulations: None.

16. OTHER INFORMATION

16.1 Relevant H-phrases mentioned in item 3 (number and full text):
EUH032 Contact with acids liberates very toxic gas.

16.2 Training instructions: None.

16.3 Recommended restrictions of use: Not suitable for consumption.

16.4 Further information: None.

The information provided in this publication has been worked up to the best of our knowledge, however we cannot anticipate all conditions and properties of our product when used in combination with products of other manufacturers. Therefore we sell the products without warranty and assume no responsibility and liability for loss or damage arising from the handling and use of our products.
Appendix to Document: 4008863 MER 01E 04
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