

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

Printing date: 30.06.2016

Version: 1.00

Revision: 30.06.2016

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

· **1.1 Product identifier**

· **Trade name:** Cerium acetate solution

· **Registration number:**

This substance has (All substances contained in this mixture have) been pre-registered according to regulation (EC) No. 1907/2006 in its current version.

· **1.2 Relevant identified uses of the substance or mixture and uses advised against:** -

· **Application of the substance / the preparation:** Raw material for industrial applications

· **Uses advised against** -

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier/Manufacturer:**

GTS - German Trading Service GmbH for Raw Materials  
 Reinbeker Redder 89a  
 21031 Hamburg  
 Germany

Tel.: +49 40 739115

Fax: +49 40 7387059

· **Email competent person:** sds@kft.de

· **Information department:** See supplier/manufacturer

· **1.4 Emergency telephone number:**

National Poison Information Service (NPIS)  
 24 hour national number                      professionals only  
 0844 892 0111

National Health Service (NHS)  
 24 hour national number                      consumer  
 England and Scotland: 111  
 Wales: 0845 46 47  
 Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

· **Classification system:**

The classification was made according to the latest editions of the EC-lists and expanded using company data and specialized literature.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



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- **Signal word** Warning
- **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.
- **Precautionary statements**  
P280 Wear protective gloves / eye protection.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P362+P364 Take off contaminated clothing and wash it before reuse.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:**  
Mixture of the substances listed below with nonhazardous additions.  
Aqueous solution of:
- **Dangerous components:**  
CAS: 537-00-8 cerium(3+) acetate 10-20%  
EINECS: 208-654-0 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Immediately remove and dispose of any clothing and shoes soiled and soaked by the product.  
If symptoms persist or in case of doubt, seek medical advice.
- **After inhalation:** Supply fresh air; consult a doctor in case of pain.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult a doctor (eye specialist).
- **After swallowing:**  
Rinse mouth with water.  
Spit liquid out again.  
Never give anything by mouth to an unconscious person.  
Do not induce vomiting.  
If vomiting occurs spontaneously:  
Hold the head of the vomiting person low with the body in a prone position in order to avoid aspiration.  
If symptoms persist, consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Irritation of eyes and mucous membrane  
Local irritation symptoms
- **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No data available
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide and carbon dioxide  
Toxic metal oxide smoke
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information:**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid contact with eyes and skin.  
Ensure adequate ventilation.  
Wear protective clothing.  
Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to penetrate the ground/soil.  
In case of seepage into the ground inform responsible authorities.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Make sure to recycle or dispose of in suitable receptacles.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:** Observe the general rules of industrial fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store container tightly sealed at a cool and dry place with sufficient ventilation.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from feed.  
Do not store together with alkalis (caustic solutions).  
Store away from oxidising agents.  
Refer to national regulations for storing hazardous chemicals.
- **Further information about storage conditions:** None
- **Storage class:** 10-13 other combustible and non-combustible substances

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- **7.3 Specific end use(s)** No further relevant information available

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures should be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Remove all soiled and contaminated clothing immediately.  
Do not eat, drink, smoke or sniff while working.  
Avoid contact with eyes and skin.  
Wash hands before breaks and at the end of work.  
After skin contact, cleanse skin thoroughly.
- **Breathing equipment:** Not necessary if room is well-ventilated
- **Protection of hands:**  
Chemical resistant gloves (EN 374)  
The glove material has to be impermeable and resistant to the product/substance/preparation.  
Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture.  
Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:**  
Nitrile rubber, NBR  
Butyl rubber, BR  
The selection of suitable gloves depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**  
Penetration time: > 8 hours  
The above-mentioned times are based on reference values as per EN 374. Under practical conditions (33 °C – taking into account the body temperature), the maximum wearing time is to be limited to one-third.  
The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information:

##### · Appearance:

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless Yellowish

· **Odour:** Light pungent

· **Odour threshold:** Not determined

· **pH-value at 20 °C:** > 2

##### · Change in condition:

<b>Melting point/Melting range:</b>	Not determined
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<b>Boiling point/Boiling range:</b>	Not determined
· <b>Flash point:</b>	Not determined
· <b>Flammability (solid, gaseous):</b>	Not applicable
· <b>Ignition temperature:</b>	Not determined
· <b>Decomposition temperature:</b>	~ 308 °C
· <b>Self ignition temperature:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
· <b>Oxidizing properties:</b>	Non-oxidizing
· <b>Vapour pressure:</b>	Not determined
· <b>Density at 20 °C:</b>	1.08 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined
· <b>Vapour density:</b>	Not determined
· <b>Evaporation rate:</b>	Not determined
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible
· <b>Partition coefficient (n-octanol/water):</b>	Not determined
· <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	2 mPas
<b>kinematic:</b>	Not determined
· <b>9.2 Other information</b>	No further relevant information available

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications  
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** Reacts violently with oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available
- **10.5 Incompatible materials:**  
Strong oxidants  
Acids  
Air/oxygen
- **10.6 Hazardous decomposition products:**  
No hazardous decomposition products if instructions for storage and handling are followed

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** No toxicity data are available for the product itself.
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.

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- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity** No data available
- **Carcinogenicity** No data available
- **Reproductive toxicity** No data available
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** No data available
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** There are no quantitative data available for the product itself.
- **12.2 Persistence and degradability** No further relevant information available
- **12.3 Bioaccumulative potential** No further relevant information available
- **12.4 Mobility in soil** No further relevant information available
- **Additional ecological information:**
- **General notes:**  
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous to water  
According to appendix 4 of VwVwS dated 17.05.1999 (German regulation)  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water even if extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Other adverse effects** No further relevant information available

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.  
Disposal according to instructions of local authorities  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water; if necessary, with cleansing agents

### SECTION 14: Transport information

- |  |      |
|--|------|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>               | Void |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul> | Void |

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· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	Not applicable
· <b>14.6 Special precautions for user</b>	Not applicable
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable
· <b>Transport/Additional information:</b>	Not dangerous according to the above regulations
· <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **Water hazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.
  - **Classification according to Regulation (EC) No 1272/2008**  
 Skin Irrit. 2 calculation method  
 Eye Irrit. 2 calculation method
  - **Department issuing SDS:**  
 KFT Chemieservice GmbH  
 Im Leuschnerpark. 3 64347 Griesheim  
 Postfach 1451 64345 Griesheim  
 Germany
- Phone: +49 6155 8981 400      Fax: +49 6155 8981 500  
 Safety Data Sheet Service: +49 6155 8981 522
- **Contact:** Dr. Nicolas Heidrich
  - **Abbreviations and acronyms:**  
 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  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
SVHC: Substances of Very High Concern  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
· **Sources:** MSDS of the supplier

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