

**MATERIAL SAFETY DATA SHEET****Product Name:** Cerium(III) nitrate hexahydrate**CAS No.:** 10294-41-4**Version:** 0**1. Identification**

**Product Code** : 91534  
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**2. Hazards Identification****Hazard classification**

Oxidizing solids : Category 3  
Serious eye damage : Category 1  
Acute aquatic toxicity : Category 1  
Chronic aquatic toxicity : Category 1

**Labels elements**

Hazard symbol

**Signal word** : Danger**Hazard statement** : May intensify fire; oxidizer.  
Causes serious eye damage.  
Very toxic to aquatic life with long lasting effects.**Precautionary statement** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Avoid release to the environment.  
Wear protective gloves/ eye protection/ face protection.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
Dispose of contents/ container to an approved waste disposal plant.

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**Ingredient** : Cerous nitratehexahydrate  
**CAS No.** : 10294-41-4  
**Percent** : NLT 99.9%  
**Formula** :  $CeN_3O_9 \cdot 6H_2O$   
**Molecular Weight** : 434.22 g/mol

**4. First Aid Measures****Description of first aid measures**

**General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact** : Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**Eye contact** : Flush eyes with water as a precaution.

**Swallowed** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed** : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed Treatment** : No data available

**5. Fire fighting measures****Extinguishing media**

**Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture** : Nitrogen oxides (NO<sub>x</sub>), cerium oxides

**Advice for firefighters** : Wear self contained breathing apparatus for firefighting if

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necessary.

**6. Accidental Release Measures**

- Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- Methods and materials for containment and cleaning up** : Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**7. Handling and storage**

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition  
- No smoking. Take measures to prevent the buildup of electrostatic charge.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Air sensitive. Hygroscopic.

**8. Exposure Controls / Personal Protection**

- Exposure limit** : No data available
- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Personal protective equipment**
- Respiratory protection : Air-purifying respirators
- Hand protection : Handle with gloves
- Eye protection : Face shield and safety glasses
- Skin and Body Protection : Complete suit protecting against chemicals

**9. Physical and Chemical Properties**

- Appearance** : Colourless or pale yellow moist crystals

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<b>Odor</b>	:	No data available
<b>pH</b>	:	No data available
<b>Melting point/freezing point</b>	:	57 °C
<b>Initial boiling point and boiling range</b>	:	No data available
<b>Flash Point</b>	:	No data available
<b>Vapor pressure</b>	:	No data available
<b>Vapor density</b>	:	No data available
<b>Relative density</b>	:	No data available
<b>Solubility in water</b>	:	No data available
<b>Solubility (other)</b>	:	No data available

**10. Stability and Reactivity**

<b>Reactivity</b>	:	No data available
<b>Chemical stability</b>	:	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	:	No data available
<b>Conditions to avoid</b>	:	hygroscopic Air sensitive.
<b>Incompatible materials</b>	:	Strong reducing agents, Strong acids
<b>Hazardous decomposition products</b>	:	Hazardous decomposition products formed under fire conditions. - Strong reducing agents, Strong acids

**11. Toxicological Information****Information on toxicological effects**

<b>Acute toxicity</b>	:	No data available
<b>Skin corrosion/irritation</b>	:	No data available
<b>Serious eye damage/eye irritation</b>	:	No data available
<b>Respiratory or skin sensitization</b>	:	No data available
<b>Germ cell mutagenicity</b>	:	No data available
<b>Carcinogenicity</b>		
IARC	:	No data available
NTP	:	No data available
OSHA	:	No data available
<b>Reproductive toxicity</b>	:	No data available
<b>Route of Exposure</b>	:	No data available
<b>Signs and Symptoms of Exposure</b>	:	No data available

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**Toxicity** : No data available  
**Persistence and degradability** : No data available  
**Bioaccumulative potential** : No data available  
**Mobility in soil** : No data available.  
**Other adverse effects** : No data available.

**13. Disposal consideration**

**Disposal instructions** : Offer surplus and non-recyclable solutions to a licensed disposal company.  
**Contaminated packaging** : Dispose of as unused product.

**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	1477	NITRATES, INORGANIC, N.O.S. (Cerium(III) nitrate hexahydrate)	5.1	III	No
<b>IMDG</b>	1477	NITRATES, INORGANIC, N.O.S. (Cerium(III) nitrate hexahydrate)	5.1	III	No
<b>IATA</b>	1477	NITRATES, INORGANIC, N.O.S. (Cerium(III) nitrate hexahydrate)	5.1	III	No

**15. Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date** :30/06/2016**Version** : 0

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