

SAFETY DATA SHEET

Revision Date 20.Apr.2023

1. Product name and details of the supplier of the safety datasheet

Product name : Cerium(III) Chloride Heptahydrate

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2. Hazards Identification

【GHS classification】

Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

【Pictograms】



【Signal word】 Warning

【Hazard statements】

H315 – Causes skin irritation
H319 – Causes serious eye irritation

【Precautionary statements –(Prevention)】

- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

【Precautionary statements-(Response)】

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse

【Precautionary statements-(Storage)】

- Not applicable

【Precautionary statements-(Disposal)】

- Not applicable

【Other hazards】

- Not available

3. Composition/information on ingredients

【Substances】

Formula	: $\text{CeCl}_3 \cdot 7\text{H}_2\text{O}$
Molecular weight	: 372.58 g/mol
CAS No.	: 18618-55-8
ENCS	: 1-622
ISHL No.	: Announced chemical substances

4. Description of first aid measures

【If inhaled】

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

【In case of skin contact】

Wash off with soap and plenty of water.

【In case of eye contact】

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

【If swallowed】

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Firefighting measures

【Suitable extinguishing media】

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

【Unsuitable extinguishing media】

No information available

【Special hazards arising from the substance or mixture】

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

【Special extinguishing method】

No information available

【Special protective actions for fire-fighters】

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. Accidental release measures

【Personal precautions, protective equipment and emergency procedures】

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

【Environmental precautions】

To be careful not discharged to the environment without being properly handled waste water contaminated.

【Methods and materials for containment and cleaning up】

Sweep up and gather scattered particle, and collect it in an empty airtight container.

【Recoverly, neutralization】

No information available

【Secondary disaster prevention measures】

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

【Precautions for safe handling】

provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. General industrial hygiene practice.

【Conditions for safe storage, including any incompatibilities】

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

【Exposure controls】

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】

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection
Tested and approved under appropriate government standards such as NIOSH(US) or EN166.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95(US) or type P1(EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH(US) or CEN(EU).

Control of environmental exposure

Do not let product enter drains.

9 . Physical and chemical properties

Appearance	Form: crystalline powder or mass
Odour	:No data available
Odour Threshold	:No data available
pH	:No data available
Melting point/freezing point	:848°C
Initial boiling point and boiling range	:No data available
Flash point	:No data available
Evaporation rate	:No data available
Flammability (solid, gas)	:No data available
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Water solubility	: free soluble
Partition coefficient: n-octano/water	: No data available
Auto-ignition temperature	: No data available

Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

1 0 . **Stability and reactivity**

【Reactivity】

No data available

【Chemical stability】

Stable under recommended storage conditions.

【Possibility of hazardous reactions】

No data available

【Conditions to avoid】

No data available

【Incompatible materials】

Strong oxidizing agents

【Hazardous decomposition products】

In the event of fire: see section 5

1 1 . **Information on toxicological effects**

【Acute toxicity】

Oral: LD50 1959 mg/kg(Mouse)

Inhalation: No data available

Dermal: No data available

【Skin corrosion/irritation】

No data available

【Serious eye damage/eye irritation】

No data available

【Respiratory or skin sensitization】

No data available

【Germ cell mutagenicity】

No data available

【Carcinogenicity】

No data available

【Reproductive toxicity】

No data available

【Specific target organ toxicity – single exposure】

No data available

【Specific target organ toxicity – repeated exposure】

No data available

【Aspiration hazard】

No data available

【Additional Information】

No data available

1 2 . Ecological information**【Toxicity】**

No data available

【Persistence and degradability】

No data available

【Bioaccumulative potential】

No data available

【Mobility in soil】

No data available

【Results of PBT and vPvB assessment】

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

1 3 . Disposal considerations**【Waste from residues】**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

【Contaminated container and contaminated packaging】

Disposal should be in accordance with applicable regional, national and local laws and regulations.

1 4 . Transport information**【UN number】**

ADR/RID:—

IMDG:—

IATA:—

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

【Transport hazard class(es)】

ADR/RID: —

IMDG: —

IATA: —

【Packaging group】

ADR/RID: —

IMDG: —

IATA: —

【Environmental hazards】

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

【Special precautions for user】

Not classified as dangerous in the meaning of transport regulations.

1 5 . Regulatory information**【International Inventories】**

EINECS/ELINCS —

TSCA —

【Japanese regulations】

Fire Service Act : Not applicable

Poisonous and Deleterious Substances Control Law : Not applicable

Industrial Safety and Health Act

: Not applicable

Regulations for the carriage of dangerous goods in ship : Not applicable

And storage of dangerous goods in ship

Civil Aeronautics Law: Not applicable

Pollutant Release and Transfer

Register Law(~2023.3.31) : Not applicable

Pollutant Release and Transfer: Class1

Register Law(2023.4.1~) : Class1-No.665

Export Trade Control Order : Not applicable

1 6 . Other information**【Further information】**

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