

Safety Data Sheet

1. Chemical product and company identification

Product name : Ammonium cerium(IV) sulfate dihydrate, 4N

Company information

Name of manufacturer : KANTO CHEMICAL CO., INC.

Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, JP

Name of section : Business Administration Department, Reagent Division

Telephone number : +81-3-6214-1090

Facsimile number : +81-3-3241-1047

Mail address : BC32@kanto.co.jp

Reference No : 08108

2. Hazards identification

GHS classification

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

Hazard
pictograms



Signal word : Warning

Hazard statements : Causes skin irritation
Causes serious eye irritation

Precautionary statements

Prevention : Wash hands, forearms and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response : IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see supplemental first aid instruction on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Synonyms : Cerium(IV) ammonium sulfate dihydrate, Cerium(IV) tetraammonium sulfate dihydrate, Tetraammonium cerium(IV) sulfate dihydrate



Chemical name	Concentration (%)	Formula	TSCA	EC-No.	CAS RN
Tetraammonium cerium(IV) tetrasulfate dihydrate	≥ 99.99	Ce(NH ₄) ₄ (SO ₄) ₄ · 2H ₂ O	Not listed	-	10378-47-9

4. First aid measures

First aid measures

- First-aid measures after inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.
- First-aid measures after skin contact : Remove contaminated clothing and the substance. Wash with plenty of water. If skin irritation or rash occurs, get medical attention.
- First-aid measures after eye contact : Wash the affected areas under running water for at least 15 minutes. If necessary, get medical treatment.
- First-aid measures after ingestion : Give the victim water or salt water and induce vomiting. If necessary, get medical attention.
- Personal Protection in First Aid and Measures : Rescuers should wear proper protective equipment like rubber gloves, goggles.

5. Fire fighting measures

- Suitable extinguishing media : This product is noncombustible.
- Unsuitable extinguishing media : None
- Fire hazard : Contact with combustible material may cause fire.
- Firefighting instructions : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.
- Personal protection (Emergency response) : Firefighters should wear protective equipment.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

- General measures : Wear proper protective equipment and avoid contact with skin and inhalation of dust. Conduct operations from upwind and evacuate people downwind.

Environmental precautions

- Environmental precautions : Attention should be given to avoid discharge of spilled product into rivers and resulting environmental damage. When diluting spill with large amounts of water, discharge of untreated wastewater into the environment must be avoided.

Methods and Equipment for Containment and Cleaning up

- For containment : Sweep up in a chemical waste container. Flush contaminated area with copious amounts of water.
- Prevention Measures for Secondary Accidents : Do not allow contact with organic substances or combustible substances.



7. Handling and storage

Handling

- Technical measures : Wear appropriate protective equipment to avoid contact with skin or inhalation of dust.
- Precautions for safe handling : Avoid formation of dust and aerosols.
The substance is an oxidizer. Avoid contact with organic substances.

Storage

- Storage conditions : Store in a dark, cool place and tightly closed.
Keep away from combustible materials.
- Material used in packaging/containers : Glass, polyethylene, polypropylene.

8. Exposure controls / Personal protection equipment

ACGIH TWA	Not established
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- Appropriate engineering controls : Install a local ventilation system in case of dusty condition.

Protective equipment

- Respiratory protection : If necessary, wear dust mask
- Hand protection : Impervious protective gloves
- Eye protection : Safety goggles
- Skin and body protection : Protective clothing, protective boots

9. Physical and chemical properties

- Physical state : Solid
- Color : Orange
- Odor : Odorless
- pH : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Non flammable.
- Vapor pressure : No data available
- Relative density : No data available
- Density : No data available
- Relative gas density : No data available
- Solubility : Slightly soluble in water. Organic solvents: Practically insoluble in ethanol.
- Partition coefficient n-octanol/water (Log Pow) : No data available
- Explosive limits (vol %) : No data available



Viscosity, kinematic: : No data available
Particle characteristics : No data available

10. Stability and reactivity

Reactivity : Has oxidative properties.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : May ignite or explode when in contact with flammable or reducing substances.
Conditions to avoid : Light, heat.
Incompatible materials : Combustible materials, reducing substances.
Hazardous decomposition products : Sulfur oxides, nitrogen oxides, cerium oxide.

11. Toxicological information

Acute toxicity (oral) : Classification not possible
Acute toxicity (dermal) : Classification not possible
Acute toxicity (inhalation) : No classification (gas)
Classification not possible (vapor)
Classification not possible (dust, mist)
Skin corrosion/irritation : Causes skin irritation
Since the substance causes skin irritation, it was classified into category 2.
Serious eye damage/irritation : Causes serious eye irritation
Since the substance causes eye irritation, it was classified into category 2A.
Respiratory sensitization : Classification not possible
Skin sensitization : Classification not possible
Germ cell mutagenicity : Classification not possible
Carcinogenicity : Classification not possible
Reproductive toxicity : Classification not possible
STOT-single exposure : Classification not possible
May cause respiratory tract irritation.
STOT-repeated exposure : Classification not possible
Aspiration hazard : Classification not possible

12. Ecological information

Ecotoxicity

Aquatic acute : Classification not possible
Aquatic chronic : Classification not possible

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Hazardous to the ozone layer

Ozone : Classification not possible



13. Disposal considerations

- Ecology - waste materials : Dilute with copious water and adjust the pH to neutral, then flush in drains. Insoluble substances are buried in a landfill site approved for the disposal of chemical and hazardous wastes. Or entrust approved waste disposal companies with the disposal.
- Contaminated container and packaging : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

International Regulations

Transport by sea(IMDG)

- UN-No. (IMDG) : Not applicable
- Proper Shipping Name (IMDG) : Not applicable
- Packing group (IMDG) : Not applicable
- Transport hazard class(es) (IMDG) : Not applicable

Air transport(IATA)

- UN-No. (IATA) : Not applicable
- Proper Shipping Name (IATA) : Not applicable
- Packing group (IATA) : Not applicable
- Transport hazard class(es) (IATA) : Not applicable

- Marine pollutant : Not applicable

15. Regulatory information

Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.

16. Other information

- Data sources : NITE Chemical Risk Information Platform (NITE-CHRIP), National Institute of Technology and Evaluation.
Handbook of 17322 Chemical Products, The Chemical Daily Co. (2022) .

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information, and it does not represent a guarantee the properties of the product. The Safety Data Sheet (SDS) is prepared based on JIS Z7253.

