

Safety Data Sheet

1. Product and company identification

Product name : Cesium nitrate
 Name of manufacturer : KANTO CHEMICAL CO., INC.
 Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, Japan
 Name of section : Reagent division, catalog and products information section
 Telephone number : +81-3-6214-1090
 Facsimile number : +81-3-3241-1047
 Mail address : BC32@gms.kanto.co.jp
 SDS No. : 07189

2. Summary of danger and Hazard

GHS classification

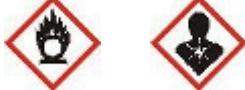
Physical and chemical hazard

Explosives : Out of category
 Flammable solids : Out of category
 Pyrophoric solids : Out of category
 Self-heating substances and mixtures : Out of category
 Substances and mixtures which, in contact with water, emit flammable gases : Out of category
 Oxidizing solids : Category 3

Human health hazard

Acute toxicity(oral) : Out of category
 Specific target organ systemic toxicity(repeated exposure) : Category 1

Pictogram or symbol



Signal word : Danger
 Hazard statement : May intensify fire : oxidizer
 Causes damage to organs (blood) through prolonged or repeated exposure

Cautions

Safety measurements : Keep away from heat.
 Keep away from combustible substances.
 Do not breathe dust, mist, and vapor.
 Do not eat, drink or smoke when using this product.
 Wear appropriate protective gloves, glasses, clothing, face shield, or mask.
 Wash hands thoroughly after handling.
 First-aid measures : Get medical treatment, if you feel unwell.



Storage : Keep away from combustible substances.
 Disposal : Dispose of contents and containers appropriately in accordance with related regulations.

3. Composition/Information on ingredients

Substance/Mixture : Substance
 Chemical name or commercial name : Cesium nitrate
 Ingredients and composition : Cesium nitrate min. 99.99%
 Chemical formula : CsNO₃
 CAS No. : 7789-18-6
 TSCA Inventory : Registered
 EINECS No. : 2321468
 Dangerous and hazardous ingredients : Cesium nitrate

4. First aid measures

Inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.
 Skin contact : Wash the affected areas under running water.
 Eye contact : Wash the affected areas under running water for at least 15 minutes.
 If necessary, get medical treatment.
 Ingestion : Give the victim water or salt water and induce vomiting. If necessary, get medical attention.

5. Fire fighting measures

Extinguishing media : Water, dry chemical powder, carbon dioxide, dry sand, foam
 Prohibited extinguishing media : None
 Particular fire fighting : 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.

6. Accidental release measures

Cautions for personnel : Wear proper equipment and avoid contact with skin and inhalation of dust. Keep away personnel except for authorized ones from spillage area by stretching ropes.

7. Cautions of handling and storage

Handling
 Engineering measures : Wear proper protective equipment not to contact with skin or inhale the dust. Do not mixed with combustible substances like organic compounds, sulfur, phosphorous.
 Storage
 Adequate storage condition : Keep away from combustible substances.



Keep the bottle tightly closed and store at a cool place. The product of 4N should be stored at a refrigerator (0-6°C).

Safety adequate container materials

: Glass, polyethylene, polypropylene

8. Exposure control/Personal protection

Engineering measures : Install a local ventilation system under dusty condition.

Control parameters

ACGIH(2009) : Not established

Protective equipment

Respiration protective equipment

: If necessary, wear dust mask

Hands protective equipment

: Impervious protective gloves

Eyes protective equipment

: Safety goggles

9. Physical and chemical properties

Appearance : Crystal

Color : White

Odor : Odorless

Boiling point : Decomposition

Melting point : 414°C

Flash point : Noncombustible

Specific gravity : 3.23g/mL (20°C)

Solubility

Solubility in solvents : Water : 239.5 g/L (20°C)

Organic solvents : Practically insoluble in ethanol

10. Stability and reactivity

Stability : Stable under normal usage.

Reactivity : The mixture with powdery combustible materials may cause ignite vigorously or explode by heating or shock.

May react with reducing substances.

Incompatible materials : Reducing substances, combustible materials

Hazardous decomposition products

: Nitrogen oxides

11. Toxicological information

Acute toxicity : Oral : Out of category

Dermal : Not possible to classify because of insufficient data.

Inhalation(vapor) : Not possible to classify because of insufficient data.

Inhalation(dust, mist) : Not possible to classify because of insufficient data.

rat oral LD50=2390mg/kg

mouse oral LD50=2300mg/kg

Skin corrosiveness : Not possible to classify because of insufficient data.

Irritation to skin, eyes : Not possible to classify because of insufficient data.

Although causes irritation to the eyes, it is not possible to classify because of insufficient data.

Respiratory sensitization or Skin sensitization

: Respiratory sensitization : Not possible to classify because of insufficient data.

Skin sensitization : Not possible to classify because of insufficient data.

Mutagenicity : Not possible to classify because of insufficient data.

Carcinogenic effects : Not possible to classify because of insufficient data

Effects on the reproductive system

: Not possible to classify because of insufficient data.

Specific target organ systemic toxicity single exposure

: Not possible to classify because of insufficient data.

Specific target organ systemic toxicity repeated exposure

: Cause damage to organs (blood) through prolonged or repeated exposure(category 1)

Methemoglobinemia is observed in patients who administrated sodium nitrate as diuretic agent, and ammonium nitrate a urinary tract stones inhibitor. Therefore it was classified into category 1(blood).

Aspiration hazard : Not possible to classify because of insufficient data.

12. Ecological information

Ecotoxicity

Fish toxicity : Acute aquatic toxicity : Not possible to classify because of insufficient data.

Chronic aquatic toxicity : Not possible to classify because of insufficient data.

Rediualbility and degradability

: Not available

Ecorediualbility : Not available

13. Disposal consideration

Residual disposal : Dilute with copious water and adjust the pH of the solution, after that flush in drains. Unsolved 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.

Containers : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

UN class : Class 5.1(Oxidizing substances) P. G. III

UN number : 1451

Marine regulation information

UN No. : 1451

Proper shipping name : CAESIUM NITRATE

Class : 5.1
Sub risk : -
Packing group : III
Marine pollutant : Not applicable

Aviation regulation information

UN No. : 1451
Proper shipping name : Caesium nitrate
Class : 5.1
Sub risk : -
Packing group : III

15. Regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

References	Encyclopaedia Chemica, Kyoritsu Shuppan Co., Ltd. (1963)
	Dangerous Properties of Industrial Materials, 6th ed. N. I. Sax Van Nostrand Reinhold Company (1984)

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, and it has the same required elements on the Material Safety Data Sheet (MSDS) which is prepared based on JIS Z7250:2010.