



JUNSEI

Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 37455

Catalog Name: Strontium nitrate

Company Identification:

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CREATION DATE: July 3, 2012

SECTION 2 HAZARDS IDENTIFICATION

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

Skin corrosion/Irritation : Category 2

Serious eye damage/eye irritation : Category 2B

Pictograms or symbol



Signal word : Warning

Hazard statement : May intensify fire ; oxidize.

Causes skin irritation.

Causes eye irritation.

Cautions

Safety measurements:

- Wear protective gloves/protective clothing/eye protection/face protection.

- Keep away from heat./sparks/open flames/hot surfaces.-No smoking.
- Keep/Store away from clothing/combustible materials.
- Wash hands thoroughly after handling.

First-aid measures :

- In case of fire; Use appropriate method of extinguishing.
- If ON SKIN : Wash with plenty of soap and water. Get medical advice/attention.
- If skin irritation occurs : Get medical advice/attention.
- 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.
- Take off contaminated clothing before reuse.

Storage

- Store locked up. Keep away from combustible substances.

Disposal

- Dispose of contents and containers appropriately in accordance with related regulations.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Substance/Mixture : Substance

Component : Strontium nitrate

Chemical formula : $\text{Sr}(\text{NO}_3)_2$

Cas number : 10042-76-9

US TSCA inventory : Registered

EC number (EINECS): 233-131-9

JAPAN number (ENCS) : 1-490

Percentage : (EP) 97.0 +%

SECTION 4 FIRST AID MEASURES

- If inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If on skin : Rinse skin with water/shower.
- If in eyes : Rinse cautiously with water for several minutes.
Remove contact lenses ,if present and easy to do. Continue rinsing.
If necessary, get medical advice/attention.
- If swallowed : Rinse mouth. Do not induce vomiting.
If necessary, get medical advice/attention.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media: This substance is noncombustible.

Prohibited extinguishing media : None

Particular fire fighting : Move containers form fire area if it can be done without risk, if not possible, apply water form a safe distance to cool and protect surrounding area.

Protection for firefighters : Firefighters should wear protective equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

General Information : Use proper personal protective equipment as indicated in Section 8.
Cautions for environment : Avoid release to the rivers, lakes, ocean, groundwater.
Spills/Leak : Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 HANDLING AND STORAGE

Handling : Avoid breathing dust, fumes. Avoid contact with skin and eyes.
Use only in a chemical fume hood.
Do not eat, drink or smoke when using this product.

Storage: : Store locked up.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls : Use adequate ventilation to keep airborne concentrations low.

Occupational exposure limits:

OELs (2011) ; -

ACGIH(2010) ; -

Personal protective equipment :

Eye Protection : Goggles

Hand Protection : Protective gloves

Skin and body protection : Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection : Wear respiratory protection.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid

Appearance : White crystals or powder

Odor : Odorless

Melting Point : 570

Boiling Point : 645

Explosion Limits, lower : No data available

Explosion Limits, upper : No data available

Density : 2.99 g/cm³

Solubility in water : Freely sol in water.

Distribut.coeff. n-octanol/water: No data available

Molecular Formula : Sr (NO₃)₂

Molecular Weight : 211.63

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability : Stable in ordinary handling conditions.

Conditions to Avoid : No data available

Incompatibilities with Other Materials : Reducing substances.

Hazardous Decomposition Products: Nitrogen oxides

Hazardous Polymerization : Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral : Classified into out of category based on mouse LD₅₀ value= 5,675mg/kg (ATSDR (2004))

Dermal : Not possible to classify because of no data.

Gas : Not applicable (GHS definition).

Vapours : Not possible to classify because of no data.

Dusts and mists : Not possible to classify because of no data.

Skin corrosion/Irritation: Classified into category 2 based on the description in the report on the rabbit skin irritation test(HSDB (2003)); " irritated the skin ".

Serious eye damage/eye irritation: Classified into category 2B based on the description in the report the rabbit eye irritation test (HSDB (2003)); " weakly irritated ".

Respiratory sensitization: Not possible to classify because of no data.

Skin sensitization: Not possible to classify because of no data.

Mutagenicity: Not possible to classify because of no data.

Carcinogenic effects: Not possible to classify because of no data.

Effects on the reproductive system: Not possible to classify because of no data.

Specific target organ systemic toxicity single exposure:

Not possible to classify because of no data.

Specific target organ systemic toxicity repeated exposure:

Not possible to classify because of no data.

Aspiration hazard: Not possible to classify because of no data.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

Hazardous to the aquatic environment (acute): Not possible to classify because of no data.

Hazardous to the aquatic environment (chronic): Not possible to classify because of no data.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

IATA Shipping Name: Strontium nitrate
Hazard Class: 5.1 (Oxidizing substances)
UN Number: 1507

Packing Group:
IMO Shipping Name: STRONTIUM NITRATE
Hazard Class: 5.1 (Oxidizing substances)
UN Number: 1507

Packing Group:
Marine pollutant: None

RID/ADR Shipping Name: Strontium nitrate
Hazard Class: 5.1 (Oxidizing substances)
UN Number: 1507

Packing Group:

SECTION 15 REGULATORY INFORMATION

Fire Service Act : Article 2, Category oxidizing solids
Poisonous and Deleterious Substances Control Act : Not available
Industrial Safety and Health Act : Not available
Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (MSDS required) (Effective from October 1, 2009) : Not available
Ordinance for Enforcement of the Civil Aeronautics Act
: Article 194 in Regulation (v) Oxidizing substances
Regulations for the carriage and storage of dangerous goods in ship
: Article 2 Oxidizing substances

Substance Registration :

US TSCA inventory : Registered
EC number (EINECS): 233-131-9
JAPAN number (ENCS) : 1-490
Australia (AICS) : Registration
Canada(DSL) : Registration (as Nitric acid, strontium salt)
Korea number (ECL) : KE-32235
China(IECSC) : Registration

SECTION 16 OTHER INFORMATION

REFERENCES:

- The Merck Index 14 edition, Monographs No. 8845
- Registry of Toxic Effects of Chemical Substances, No:WK9800000 [Strontium(II) nitrate (1:2)].
- Chemical Risk Information Platform (CHRIP)
- GHS Classification Guidance for the Japanese Government 2nd revised (March, 2010).
- Information about the status of the implementation of GHS in Japan (ID=21A3587, Strontium nitrate).
- Hazardous Substances Data Bank (HSDB)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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