



JUNSEI

Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 39085

Catalog Name: Strontium hydroxide octahydrate

Company Identification:

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CREATION DATE: September 18, 2012

SECTION 2 HAZARDS IDENTIFICATION

Physical and chemical hazard

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 : Out of category

Human health hazard

Skin corrosion/Irritation : Category 1

Serious eye damage/Eye irritation : Category 1

Pictograms or symbol



Signal word : Danger

Hazard statement : Causes severe skin burns and eye damage.
Causes serious eye damage.

Cautions

Safety measurements :

- Do not breathe dust/mist
- Wash hands thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

First-aid measures :

- If swallowed : Rinse mouth, Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
- If ON SKIN (or hair) : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
- IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN, IF IN EYES : Immediately call a POISON CENTER or doctor/physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

- Store locked up.

Disposal

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

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Substance/Mixture : Substance

Component : Strontium hydroxide octahydrate

Chemical formula : $\text{Sr}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$

Cas number : 1311-10-0, 18480-07-4 (anh.)

US TSCA inventory : Registered

EC number (EINECS): 242-367-1 (anh.)

JAPAN number (ENCS): 1-1162

Percentage : (Chemical pure) 95.0 +%

SECTION 4 FIRST AID MEASURES

- If inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately Call a POISON CENTER or doctor/physician.
- If on skin : Rinse skin with plenty of /shower for at least 15 minutes while removing contaminated clothing and shoes.
- If in eyes : Rinse cautiously with plenty of water for at least 30 minutes , immediately call a Poison Center or doctor/physician.
- If swallowed : Rinse mouth, Do not induce vomiting.
Immediately Call a POISON CENTER or doctor/physician.

SECTION 5 FIRE FIGHTING MEASURES

This product is noncombustible.

Extinguishing media : Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide.

Prohibited extinguishing media : No data available.

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 : Sweep spilled substance into covered plastic containers. Carefully collect remainder.

SECTION 7 HANDLING AND STORAGE

Handling: : Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Use only in a chemical fume hood.
Storage: : Store in a tightly closed container.
Store in well-ventilated place.
Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls : Use adequate ventilation to keep airborne concentrations low.
Administrative levels (Industrial Safety and Health Act) : Not-established
Occupational exposure limits:
OELs(2011) ; Not-established
ACGIH(2010) ; Not-established
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 crystalline powder
Odor : Odorless
pH : about 13.5
Vapor Pressure : No data available
Viscosity : No data available
Boiling Point : No data available.
Freezing/Melting Point : Loses part of its water at about 100 °
Autoignition Temperature : No data available
Flash Point : Noncombustible
Explosion Limits, lower : No data available.
Explosion Limits, upper : No data available.
Decomposition Temperature : No data available
Solubility in water : Sol in 50 parts water, 2.1 parts boiling water.
Distribut.coeff. n-octanol/water: No data available
Specific Gravity/Density : No data available

Molecular Formula : $\text{Sr}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$
Molecular Weight : 265.75

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability : Absorbs CO_2 from air forming carbonate.
Conditions to Avoid : Contact with air, heat, moisture or acid.
Incompatibilities with Other Materials : Acid
Hazardous Decomposition Products: Strontium oxide.
Hazardous Polymerization : Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral : Not possible to classify because of no data.
Dermal : Not possible to classify because of no data.
Gas : Not applicable (GHS definition).
Vapours : Not possible to classify because of no data.
Dust : Not possible to classify because of no data.

Skin corrosion/Irritation

: Classified into category1 based on the aqueous solution pH > 11.5.

Serious eye damage/eye irritation

: Classified into category1 based on the aqueous solution pH > 11.5.

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: Corrosive solid, basic, inorganic, n.o.s.
Hazard Class: 8 (Corrosive substances)

UN Number: 3262
Packing Group:
IMO Shipping Name: CORROSIVE SOLID,BASIC,INORGANIC,N.OS.(Strontium hydroxide)
Hazard Class: 8 (Corrosive substances)
UN Number: 3262
Packing Group:
RID/ADR Shipping Name: Corrosive solid, basic, inorganic, n.o.s.
Hazard Class: 8 (Corrosive substances)
UN Number: 3262
Packing Group:

SECTION 15 REGULATORY INFORMATION

Fire Service Act : Not regulated
Poisonous and Deleterious Substances Control Act
: Not regulated
Industrial Safety and Health Act :Not regulated
Ordinance for Enforcement of the Civil Aeronautics Act
: Article 194 (viii) Corrosive substance
Regulations for the carriage and storage of dangerous goods in ship
: Article 2 Corrosive substances
Substance Registration:
Australia (AICS) : Registration
Canada(DSL) : Registered as anhydride
Korea number (ECL) : KE-32230 (anh.)
China(IECSC) : Registered as anhydride

SECTION 16 OTHER INFORMATION

REFERENCES:

- The Merck Index 14 edition, Monographs No. 08843
- RTECS, No. WK 9100000
- Chemical Risk Information Platform (CHRIP)
- GHS Classification Guidance for the Japanese Government 2nd revised (March, 2010).

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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