JUNSEI Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 18410
Catalog Name: Strontium chloride hexahydrate
Company Identification:

Junsei Chemical Co., Ltd.
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CREATION DATE: July 3, 2013

SECTION 2 HAZARDS IDENTIFICATION

Physical and chemical hazard

Flammable solids	: Out of category
Pyrophoric solids	: 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

Acute toxicity Oral	: Out of category
Germ cell mutagenicity	: Category 2

Environmental hazard

Hazardous to the aquatic environment(acute hazard)	: Out of category
Hazardous to the aquatic environment(chronic hazard)	: Out of category

Pictograms or symbol

Signal word : Warning
Hazard statement : Suspected of causing genetic defects.
Cautions
Safety measurements :
- Obtain special instruction before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.

First-aid measures :

・IF exposed or concerned : Get medical advice／attention.

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: Potassium iodate
CAS NUMBER : 10025-70-4, 10476-85-4(anh)
US TSCA:inventory : Registration
EC NUMBER (EINECS): 233-971-6(anh)
JAPAN NUMBER (ENCS): 1-261
PERCENTAGE: (GR) 99.0+%
(EP) 98.0+%
(AAS) 99.0+%

SECTION 4　　FIRST AID MEASURES

If inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
If on skin : Remove/Take off immediately all contaminated clothing. 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 eyes irritation persists, get medical advice/attention.
If swallowed : Rinse mouth. Call a POISON CENTER or doctor/physician.

SECTION 5　　FIRE FIGHTING MEASURES

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 : Absorb spills with absorbent (vermiculite, sand , fuller's earth) and place into a suitable disposal container for later disposal.

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 cool, dry place. Store in the dark.
Store in a tightly closed container. Store in well-ventilated place.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls : Use adequate ventilation to keep airborne concentrations low.
Occupational exposure limits
ACGIH (2010) : Not established.
OELs (2012) : 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 : Crystal or Crystalline powders.
Appearance : White.
Odor : Odorless.
pH : 5.0～7.0 (50g/L, 25℃).
Boiling Point : No data available.
Melting Point :61℃ when rapidly heated, 868℃(anh)
Flash Point : No data available.
Explosion Limits, lower ～ upper : No data available.
Vapor Pressure : No data available.
Vapor Density (Air = 1) : No data available.
Specific Gravity/Density : 1.96
Solubility in water : No data available.
Octanol/Water Partition Coefficient : No data available.
Autoignition Temperature : No data available.
Decomposition Temperature : At 100℃ loses 5 H_2O; at 150℃ all its H_2O
Molecular Formula : $SrCl_2 \cdot 6H_2O$
Molecular Weight : 266.62

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability : Effloresces in air.
Conditions to Avoid : No data available.
Incompatibilities with Other Materials : No data available.
Hazardous Decomposition Products: No data available.
Hazardous Polymerization : No data available.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral : Classified into out of category based on the mouse LD_{50}＝531mg/kg (CICAD77 (2010)).
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: Not possible to classify because of no data.
Serious eye damage/eye irritation: Not possible to classify because of no data.
Respiratory sensitization: Not possible to classify because of no data.
Skin sensitization: Not possible to classify because of insufficient data.
Mutagenicity: Classified into category2 based on the positive results from the in vivo mutagenicity test in somatic cells (ATSDR (2004)).
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 no data.
Specific target organ systemic toxicity (repeated exposure): Not possible to classify because of insufficient data.
Aspiration hazard: Not possible to classify because of no data.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:
Hazardous to the aquatic environment (acute): Classified into out of category from 48 hours EC_{50}＝125mg/L of the Crustacea (Daphnia magna) (AQUIRE(2011))
Hazardous to the aquatic environment (chronic): Classified into out of category from 48 hours EC_{50}＝125mg/L of the Crustacea (Daphnia magna) (AQUIRE(2011)) and Solubility in water (anh)＝547g/L (Initial Risk Assessment Report by National Institute of Technology and Evaluation (NITE)(2010)).

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORT INFORMATION

Not regulated for transport.

SECTION 15 REGULATORY INFORMATION

Fire Service Act
: Not regulated
Poisonous and Deleterious Substances Control Act
: Not regulated.
Industrial Safety and Health Act
: Not regulated
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 regulated.

Substance Registration :
US TSCA inventory : Registration
EC number (EINECS) : 233-971-6(anh)
JAPAN number (ENCS) : 1-261(anh)
Australia (AICS) : Registration(anh)
Canada(DSL) : Registration(anh)
Korea number (ECL) : KE-32215(anh)
China(IECSC) : Registration(anh)

SECTION 16　OTHER INFORMATION

REFERENCES:
－The Merck Index 15 edition, Monographs No. 8970
－Chemical Risk Information Platform (CHRIP)
－Information about the status of the implementation of GHS in Japan (ID= 22A4120) (anh)
－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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