

## Material Safety Data Sheet

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### 1. Identification of the substance/mixture and of the company/undertaking

**Product name:** POTASSIUM SELENOCYNATE.1/2 HYDRATE

**Product code:** 10089776

**Supplier:** Carestream Health, Inc., 150 Verona Street, Rochester, New York 14608; Carestream Health Canada Company, 6 Monogram Place, Suite 200, Toronto, Ontario, M9R 0A1

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

**Synonyms:** None.

### 2. Hazards identification

**CONTAINS:** Potassium Selenocyanate (not applicable)

**DANGER!**

**POISON**

**MAY BE FATAL IF INHALED, ABSORBED THROUGH SKIN, OR SWALLOWED**

**CAN CAUSE NERVOUS SYSTEM DAMAGE**

**MAY CAUSE LIVER DAMAGE BASED ON ANIMAL DATA**

**MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA**

**CAUSES SKIN AND EYE IRRITATION**

**HMIS II Hazard Ratings:**

Health - 3\*, Flammability - 0, Reactivity (Stability) - 0

**NFPA Hazard Ratings:**

Health - 3, Flammability - 0, Instability - 0

NOTE: HMIS II and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. An asterisk (\*), in the HMIS II health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

### 3. Composition/information on ingredients

Weight %	Components (CAS-No.)
93 - 94	Potassium Selenocyanate (not applicable)
6 - 7	Water (7732-18-5)

### 4. First aid measures

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**Inhalation:** Move to fresh air. If not breathing, do NOT give mouth-to-mouth artificial respiration. Give oxygen and treat as directed by medical personnel. Call a physician or poison control center immediately.

**Eyes:** Rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

**Ingestion:** Induce vomiting immediately as directed by medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

### Notes to physician:

**Treatment:** First aider needs to protect himself.

## 5. Fire-fighting measures

**Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment..

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

**Hazardous Combustion Products:** None (noncombustible), (see also Hazardous Decomposition Products section).

**Unusual Fire and Explosion Hazards:** None.

## 6. Accidental release measures

**Methods for cleaning up:** Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

## 7. Handling and storage

**Personal precautions:** Do not breathe dust at concentrations greater than the exposure limits. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** No special technical protective measures required.

**Storage:** Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

## 8. Exposure controls / personal protection

**Occupational exposure controls:** Not established

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**Ventilation:** Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level.

**Respiratory protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: full-face cartridge respirator with high efficiency particulate aerosol (HEPA) cartridge(s). If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

**Eye protection:** Wear safety glasses with side shields (or goggles).

**Skin and body protection:** Wear impervious gloves and protective clothing appropriate for the risk of exposure.

**Recommended Decontamination Facilities:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

### 9. Physical and Chemical Properties

**Physical form:** solid (crystalline)

**Colour:** white

**Odour:** No data available

**Specific gravity:** No data available

**Vapour pressure:** No data available

**Vapour density:** No data available

**Volatile fraction by weight:** No data available

**Melting point/range:** No data available

**Water solubility:** appreciable

**pH:** not applicable

**Flash point:** not applicable, noncombustible solid

### 10. Stability and reactivity

**Stability:** Stable.

**Incompatibility:** Acids.

**Hazardous decomposition products:** cyanides, nitrogen oxides (NO<sub>x</sub>).

**Hazardous Polymerization:** Hazardous polymerization does not occur.

### 11. Toxicological information

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### Effects of Exposure

#### General advice:

Contains: Potassium Selenocyanate. Overexposure to selenium compounds may cause liver and kidney damage, neurological effects, fatigue, irritability, hair loss, skin lesions, nausea and vomiting, garlic odor of breath and sweat, and metallic taste.

**Inhalation:** May be fatal if inhaled.

**Eyes:** Causes eye irritation.

**Skin:** May be fatal if absorbed through skin. Causes skin irritation.

**Ingestion:** May be fatal if swallowed.

### Data for Potassium Selenocyanate:

#### Acute Toxicity Data:

- Oral LD50 (rat): 10 - 25 mg/kg
- Dermal LD50: 50 - 100 mg/kg
- Skin irritation: moderate
- Eye irritation: moderate

### 12. Ecological information

Environmental data is not available.

### 13. Disposal considerations

Discharge, treatment, or disposal is subject to national, state, provincial, or municipal laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

<b>IATA:</b>	UN Number:	UN3283
	Proper shipping name:	Selenium compound, solid, n.o.s. (Selenocyanic acid, potassium salt)
	Class:	6.1
	Packaging group:	II
<b>IMDG:</b>	UN Number:	UN3283

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Proper shipping name:	SELENIUM COMPOUND, SOLID, N.O.S. (Selenocyanic acid, potassium salt)
Class:	6.1
Packaging group:	II
<b>US DOT:</b>	
UN Number:	UN3283
Proper shipping name:	Selenium compound, solid, n.o.s. (Selenocyanic acid, potassium salt)
Class:	6.1
Packaging group:	II

For more transportation information, go to: <http://ship.carestreamhealth.com>.

### 15. Regulatory information

**U.S. California Prop. 65:** none

**Carcinogenicity Classification (components present at 0.1% or more):**

International Agency for Research on Cancer (IARC): none  
American Conference of Governmental Industrial Hygienists (ACGIH): none  
U.S. National Toxicology Program (NTP): none  
U.S. Occupational Safety and Health Administration (OSHA): none

**Chemical(s) subject to the reporting requirements of U.S. Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:**

Potassium Selenocyanate

### 16. Other information

**US/Canadian Label Statements:**

**CONTAINS: Potassium Selenocyanate (not applicable)**

**DANGER!**

**POISON**

**MAY BE FATAL IF INHALED, ABSORBED THROUGH SKIN, OR SWALLOWED**

**CAN CAUSE NERVOUS SYSTEM DAMAGE**

**MAY CAUSE LIVER DAMAGE BASED ON ANIMAL DATA**

**MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA**

**CAUSES SKIN AND EYE IRRITATION**

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Use only with adequate ventilation.

Wash thoroughly after handling.

**FIRST AID:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, move to fresh air. If not breathing, do NOT give mouth-to-mouth artificial respiration. Give oxygen and treat as directed by medical personnel. In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a

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physician or poison control center immediately. Wash contaminated clothing before re-use.  
Destroy or thoroughly clean contaminated shoes.

**Notes to physician:** First aider needs to protect himself.

Keep out of reach of children.

Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

Since emptied containers retain product residue, follow label warnings even after container is emptied.

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The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

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R-3, S-3, F-0, C-0