# Potassium Thiocyanate 0.1N

## SECTION 1. IDENTIFICATION

**Product Identifier** Potassium Thiocyanate 0.1N

**Other Means of Identification** Potassium rhodanate; Potassium sulfocyanate;

**Product Code(s)** PO7690E

**Product Family** Inorganic solution

**Recommended Use** Laboratory and industrial use.

**Restrictions on Use** Not for human or animal use.

**Supplier Identifier** Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995

**Emergency Phone No.** CANUTEC CANADA, 613-996-6666, 24 Hours

**SDS No.** 1639

## SECTION 2. HAZARD IDENTIFICATION

**Classification**

Not classified under any hazard class.

**Label Elements**

Not applicable

**Other Hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

| Chemical Name | CAS No. | % | Other Identifiers | Other Names |
|---|---|---|---|---|
| Water | 7732-18-5 | 99.00 | Dihydrogen Oxide | |
| Thiocyanic acid, potassium salt | 333-20-0 | 1.00 | Potassium rhodanate; Potassium sulfocyanate; | |

**Notes**

Above concentrations are in weight percentage.

## SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing.

**Skin Contact**

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes.

**Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.

**Ingestion**

Rinse mouth with water. Do not induce vomiting. Immediately call a Poison Centre or doctor.

**First-aid Comments**

Consult a doctor and/or the nearest Poison Control Centre for all exposures except minor instances of inhalation or skin contact.
All first aid procedures should be periodically reviewed by a doctor familiar with the material or its conditions of use in the workplace.

**Most Important Symptoms and Effects, Acute and Delayed**

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Identification) and Section 11 (Toxicological Information) of this SDS.

**Immediate Medical Attention and Special Treatment**

**Special Instructions**

General advice, consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

**Unsuitable Extinguishing Media**

Do not use a solid (straight) water stream as it may scatter and spread fire.

**Specific Hazards Arising from the Product**

Heating increases the release of toxic vapour.
Extremely hazardous hydrogen cyanide; very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides; Sulfur compounds.

**Special Protective Equipment and Precautions for Fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full
protective gear. Move containers from fire area if it can be done without risk. Otherwise, use water in flooding quantities as a spray or fog to keep fire-exposed containers cool and absorb heat.
Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures**

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials.

**Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway.

**Methods and Materials for Containment and Cleaning Up**

Contain and soak up spill with absorbent that does not react with spilled product. Materials include: clay, diatomaceous earth. Place used absorbent into suitable, covered, labelled containers for disposal.

## SECTION 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

Wear personal protective equipment to avoid direct contact with this chemical. Only use where there is adequate ventilation. Prevent accidental contact with incompatible chemicals. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

**Conditions for Safe Storage**

Store in an area that is: well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Protect from sunlight. Store in a closed container.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters**

| | ACGIH TLV® | | OSHA PEL | | AIHA WEEL | |
|---|---|---|---|---|---|---|
| **Chemical Name** | **TWA** | **STEL** | **TWA** | **Ceiling** | **8-hr TWA** | **TWA** |
| Thiocyanic acid, potassium salt | Not established | | 5 mg/m3 | | | |
| Water | Not established | | Not established | | | |

**Appropriate Engineering Controls**

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

**Individual Protection Measures**

**Eye/Face Protection**

Wear chemical safety goggles.

**Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots. Lab coat.

**Respiratory Protection**

Not normally required if product is used as directed. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge, or, wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Colourless liquid. |
| **Odour** | Not available |
| **Odour Threshold** | Not available |
| **pH** | ~ 7 |
| **Melting Point/Freezing Point** | 0.0 ºC (32.0 ºF) (melting); 0.0 ºC (32.0 ºF) (freezing) |
| **Initial Boiling Point/Range** | 100 ºC (212 ºF) |
| **Flash Point** | Not available |
| **Evaporation Rate** | Not available |
| **Flammability (solid, gas)** | Not applicable |
| **Upper/Lower Flammability or Explosive Limit** | Not available (upper); Not available (lower) |
| **Vapour Pressure** | Not available |
| **Vapour Density (air = 1)** | Not available |
| **Relative Density (water = 1)** | 1.00 |
| **Solubility** | Soluble in water; Not available (in other liquids) |

| | |
|---|---|
| **Partition Coefficient, n-Octanol/Water (Log Kow)** | Not available |
| **Auto-ignition Temperature** | Not available |
| **Decomposition Temperature** | Not available |
| **Viscosity** | Not available (kinematic); Not available (dynamic) |

### Other Information

| | |
|---|---|
| **Physical State** | Liquid |

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions of use.

**Chemical Stability**

Normally stable.

**Possibility of Hazardous Reactions**

Data not available.

**Conditions to Avoid**

Sunlight. Extremely low temperatures. Extremely high temperatures. Incompatible materials.

**Incompatible Materials**

Strong oxidizing agents (e.g. perchloric acid), halogenated compounds (e.g. trichloroethylene), strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide).

**Hazardous Decomposition Products**

Extremely hazardous hydrogen cyanide; very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides. sulfur compounds.

## SECTION 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure**

Inhalation; skin contact; eye contact; ingestion.

**Acute Toxicity**

| Chemical Name | LC50 | LD50 (oral) | LD50 (dermal) |
|---|---|---|---|
| Thiocyanic acid, potassium salt | Not available | 854 mg/kg (rat) | Not available |
| Water | Not available | > 89840 mg/kg (rat) | Not available |

**Skin Corrosion/Irritation**

No information was located.

**Serious Eye Damage/Irritation**

No information was located.

**STOT (Specific Target Organ Toxicity) - Single Exposure**

**Inhalation**

No information was located.

**Ingestion**

No information was located.

**Aspiration Hazard**

No information was located.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

No information was located.

**Respiratory and/or Skin Sensitization**

No information was located.

**Carcinogenicity**

| Chemical Name | IARC | ACGIH® | NTP | OSHA |
|---|---|---|---|---|
| Thiocyanic acid, potassium salt | Not Listed | Not Listed | Not Listed | Not Listed |
| Water | Not Listed | Not Listed | Not Listed | Not Listed |

**Reproductive Toxicity**

**Development of Offspring**

No information was located.

**Sexual Function and Fertility**

No information was located.

**Effects on or via Lactation**

No information was located.

**Germ Cell Mutagenicity**

No information was located.

**Interactive Effects**

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations**

**Canada**

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL.

**USA**

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**NFPA Rating** **Health - 1** **Flammability - 0** **Instability - 0**

**SDS Prepared By** Alphachem Limited

| | |
|---|---|
| **Phone No.** | (905)-821-2995 |
| **Date of Preparation** | May 29, 2018 |
| **Date of Last Revision** | May 29, 2018 |
| **References** | CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). GESTIS Substance Database (included by CCOHS). |
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