

# Material Safety Data Sheet

## Potassium Thiocyanate, 0.1 N Solution

ACC# 88045

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Potassium Thiocyanate, 0.1 N Solution**Catalog Numbers:** M-077, M077, MCC-030332**Synonyms:** Potassium isothiocyanate; potassium thiocyanide; potassium rhodanate; potassium rhodacyanate.**Company Identification:**

Fisher Scientific  
1 Reagent Lane  
Fair Lawn, NJ 07410

**For information, call:** 201-796-7100**Emergency Number:** 201-796-7100**For CHEMTREC assistance, call:** 800-424-9300**For International CHEMTREC assistance, call:** 703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7732-18-5	Water	>99 %	231-791-2
333-20-0	Potassium Thiocyanate	<1.0 %	206-370-1

**Hazard Symbols:** XN**Risk Phrases:** 21/22 32

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: clear, colorless liquid. **Caution!** May cause irritation.**Target Organs:** Heart, brain.**Potential Health Effects****Eye:** May cause eye irritation.**Skin:** May cause skin irritation.**Ingestion:** May cause irritation of the digestive tract.**Inhalation:** May cause respiratory tract irritation.**Chronic:** No information found.

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid. Flush skin with plenty of soap and water.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

**Antidote:** No specific antidote exists.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** Not published.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Sweep up, then place into a suitable container for disposal.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with skin and eyes.

**Storage:** Keep from contact with oxidizing materials.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Water	none listed	none listed	none listed
Potassium Thiocyanate	none listed	none listed	none listed

**OSHA Vacated PELs:** Water: No OSHA Vacated PELs are listed for this chemical. Potassium Thiocyanate: No OSHA Vacated PELs are listed for this chemical.

#### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** clear, colorless

**Odor:** none reported

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** Not available.

**Decomposition Temperature:** Not available.

**Solubility:** Not available.

**Specific Gravity/Density:** Not available.

**Molecular Formula:** KCNS

**Molecular Weight:** Not available.

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, light.

**Incompatibilities with Other Materials:** Strong oxidizing agents, light and strong acids.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide, nitrogen.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 7732-18-5: ZC0110000

**CAS#** 333-20-0: XL1925000

**LD50/LC50:**

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg;

CAS# 333-20-0:

Oral, mouse: LD50 = 590 mg/kg;

Oral, mouse: LD50 = 594 mg/kg;

Oral, rat: LD50 = 854 mg/kg;

**Carcinogenicity:**

CAS# 7732-18-5: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. CAS# 333-20-0: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No data available.

**Teratogenicity:** No data available.

**Reproductive Effects:** No data available.

**Neurotoxicity:** No data available.

**Mutagenicity:** No data available.

**Other Studies:** No data available.

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
<b>Shipping Name:</b>	No information available.				No information available.
<b>Hazard Class:</b>					
<b>UN Number:</b>					
<b>Packing Group:</b>					

## Section 15 - Regulatory Information

### US FEDERAL

**TSCA**

CAS# 7732-18-5 is listed on the TSCA inventory.

CAS# 333-20-0 is listed on the TSCA inventory.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**SARA****CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**SARA Codes**

CAS # 333-20-0: acute.

**Section 313**

No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 333-20-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations****European Labeling in Accordance with EC Directives****Hazard Symbols:**

XN

**Risk Phrases:**

R 21/22 Harmful in contact with skin and if swallowed.

R 32 Contact with acids liberates very toxic gas.

**Safety Phrases:**

S 13 Keep away from food, drink and animal feeding stuffs.

S 2 Keep out of reach of children.

**WGK (Water Danger/Protection)**

CAS# 7732-18-5: No information available.

CAS# 333-20-0: No information available.

**Canada - DSL/NDSL**

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 333-20-0 is listed on Canada's DSL List.

**Canada - WHMIS**

WHMIS: Not available.

### Canadian Ingredient Disclosure List

CAS# 333-20-0 (listed as Cyanides, inorganic salts) is listed on the Canadian Ingredient Disclosure List.

### Exposure Limits

CAS# 333-20-0 (listed as cyanide anion): OEL-ARAB Republic of Egypt:TWA 5 mg/m<sup>3</sup>;Skin OEL-AUSTRALIA:TWA 5 mg/m<sup>3</sup>;Skin OEL-AUSTRIA:TWA 5 mg/m<sup>3</sup>;Skin OEL-CZECHOSLOVAKIA:TWA 3 mg/m<sup>3</sup>;STEL 10 mg/m<sup>3</sup> JAN9 OEL-DENMARK :TWA 5 mg/m<sup>3</sup>;Skin OEL-FINLAND:TWA 5 mg/m<sup>3</sup>;STEL 10 mg/m<sup>3</sup> OEL-FRANCE:TWA 5 mg/m<sup>3</sup>;Skin OEL-GERMANY:TWA 5 mg/m<sup>3</sup>;Skin OEL-HUNGARY:TWA 0.3 mg/m<sup>3</sup>;STEL 0.6 mg/m<sup>3</sup>;Skin OEL-INDIA:TWA 4 mg/m<sup>3</sup>;Skin OEL-THE NETHERLAND S:TWA 5 mg/m<sup>3</sup>;Skin OEL-THE PHILIPPINES:TWA 5 mg/m<sup>3</sup>;Skin OEL-POLAND:TWA 0.3 mg/m<sup>3</sup> OEL-SWEDEN:STEL 5 mg/m<sup>3</sup>;Skin OEL-SWITZERLAND:TWA 5 mg/m<sup>3</sup>;STEL 10 mg/m<sup>3</sup>;Skin OEL-THAILAND:TWA 5 mg/m<sup>3</sup> OEL-UNITED KINGDOM:TWA 5 mg/m<sup>3</sup>;Skin

## Section 16 - Additional Information

**MSDS Creation Date:** 12/12/1997

**Revision #2 Date:** 3/18/2003

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*