



Material Safety Data Sheet

Potassium Thiocyanate Solutions

Section 1 - Chemical Product and Company Identification

MSDS Name:

Potassium Thiocyanate Solutions

Catalog Numbers:

LC20130, LC22140, LC22170

Synonyms:**Company Identification:**

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
333-20-0	Potassium thiocyanate	0.01-10

Section 3 - Hazards Identification

Potential Health Effects**Eye:**

May cause moderate eye irritation. 10% solutions may damage cornea.

Skin:

May cause moderate skin irritation.

Ingestion:

Excess doses cause headache, nausea, vomiting, dizziness, fatigue, disorientation, hypotension, confusion, edema of the eyelids, delirium, blurred vision, cerebral excitement, psychotic behavior, muscle spasticity, convulsions, cyanosis, collapse and death. Probable lethal dose of thiocyanate salt is 15-30 grams ingested at one time - death occurring in 10-48hrs. Fatal serum level thiocyanate 20mg/dl, with myocardial damage, focal brain damage, thyroid enlargement and thrombophlebitis.

Inhalation:

Low doses can cause headache, drowsiness, dizziness, narcosis, hypotension, visual hallucinations, confusion, cyanosis. Large doses may cause psychosis and collapse.



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Chronic:

May cause dermatitis and conjunctivitis. Prolonged absorption may cause skin eruptions, coryza, dizziness, cramps, nausea, vomiting, abdominal pain, enlarged thyroid, CNS disturbances.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

Get medical aid at once. Give oxygen if respiration is depressed. If victim is unconscious, medical personnel should remove by gastric lavage or emesis.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, cool with flooding amounts of water. No acute hazards. Avoid breathing vapors - toxic fumes of cyanide, oxides of sulfur and nitrogen can occur.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS# 333-20-0: Not published.

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Place in labeled plastic containers for disposal, wash area down with water.



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Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling.

Storage:

Store capped at room temperature. Store in amber containers. Keep away from heat and incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Potassium thiocyanate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs**Personal Protective Equipment****Eyes:**

Wear appropriate protective eye glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: Colorless

Odor: Odorless

pH: No information found.

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: < ether

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.



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Decomposition Temperature: No information found.

Solubility in water: No information found.

Specific Gravity/Density: >1

Molecular Formula: No information found.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

Reacts explosively or violently with perchoryl fluoride (100-200C), chlorates (explosive oxidation), nitrates, nitric acid, organic peroxides, acids (emits cyanide fumes).

Hazardous Decomposition Products

Oxides of nitrogen, oxides of sulfur, cyanide fumes.

Hazardous Polymerization

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 = 594 mg/kg

Oral, rat: LD50 = 854 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 333-20-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

skin and eye irritant. Toxic psychotic.

LDLO: 80mg/Kg Oral-human;

500mg/Kg Oral-rabbit;

300mg/Kg Oral-frog.



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Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

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.

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

California Regulations

European/International Regulations

Canadian DSL/NDSL

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

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



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Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 333-20-0 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 21, 1997

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