



Potassium selenocyanate, 99%

\*\*\*\* SECTION 1 - CHEMICAL PRODUCT \*\*\*\*

MSDS Name: Potassium selenocyanate, 99%

Catalog Numbers:

20198-0000, 20198-0100, 20198-0500

Synonyms:

\*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

CAS#	Chemical Name	%
3425-46-5	Potassium selenocyanate	99%
222-320-1		

Hazard Symbols: T N  
Risk Phrases: 23/25 33

\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

#### EMERGENCY OVERVIEW

Toxic by inhalation and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Hygroscopic (absorbs moisture from the air).

#### Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

Poison by ingestion. The toxicological properties of this substance have not been fully investigated.

Inhalation:

The toxicological properties of this substance have not been fully investigated. Toxic if inhaled.

Chronic:

Not available.

\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes:  
Immediately 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 immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:  
Get medical aid immediately. Wash mouth out with water.

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

Notes to Physician:

\*\*\*\* 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. Substance is noncombustible.

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

\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

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

Spills/Leaks:  
Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

Handling:  
Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage:  
Store in a cool, dry place. Store in a tightly closed container. Keep under a nitrogen blanket.

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.  
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 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 or European Standard EN 149. Always  
use a NIOSH or European Standard EN 149 approved  
respirator when necessary.

\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*

Physical State: Needles  
Color: white to light beige  
Odor: stench  
pH: Not available.  
Vapor Pressure: Not available.  
Viscosity: Not available.  
Boiling Point: Not available.  
Freezing/Melting Point: 152 - 158 deg C  
Autoignition Temperature: Not available.  
Flash Point: Not available.  
Explosion Limits, lower: Not available.  
Explosion Limits, upper: Not available.  
Decomposition Temperature:  
Solubility in water:  
Specific Gravity/Density:  
Molecular Formula: KSeCN  
Molecular Weight: 144.08

\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*

Chemical Stability:  
Not available.  
Conditions to Avoid:  
Incompatible materials, exposure to moist air or water.  
Incompatibilities with Other Materials:  
Strong oxidizing agents, strong acids.  
Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide,  
selenium/selenium  
oxides.

Hazardous Polymerization: Has not been reported.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

RTECS#:

CAS# 3425-46-5: VT1400000

LD50/LC50:

mouse: CAS# 3425-46-5: Dermal, guinea pig: LD50 = 50 mg/kg; Oral,  
LD50 = 25 mg/kg; Oral, rat: LD50 = 10 mg/kg.

Carcinogenicity:

Potassium selenocyanate -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other:

See actual entry in RTECS for complete information.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

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

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

IATA

Shipping Name: SELENIUM COMPOUND, N.O.S.

Hazard Class: 6.1

UN Number: 3283

Packing Group: II

IMO

Shipping Name: SELENIUM COMPOUND, N.O.S.

Hazard Class: 6.1

UN Number: 3283

Packing Group: II

RID/ADR

Shipping Name: SELENIUM COMPOUND, N.O.S.

Hazard Class: 6.1

UN Number: 3283

Packing group: II

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:

R 23/25 Toxic by inhalation and if swallowed.

R 33 Danger of cumulative effects.

R 50/53 Very toxic to aquatic organisms, may  
cause

long-term adverse effects in the aquatic environment.

Safety Phrases:

S 20/21 When using do not eat, drink or smoke.  
S 28A After contact with skin, wash immediately with plenty of water.  
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S 60 This material and its container must be disposed of as hazardous waste.  
S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 3425-46-5: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 3425-46-5 is listed on Canada's DSL List.

CAS# 3425-46-5 is not listed on Canada's Ingredient

Disclosure List.

Exposure Limits

CAS# 3425-46-5: OEL-ARAB Republic of Egypt:TWA 0.2 mg(Se)/m3

OEL-AUSTRALIA:TWA 0.2 mg(Se)/m3

OEL-BELGIUM:TWA 0.2 mg(Se)/m3

OEL-DENMARK:TWA 0.1 mg(Se)/m3

OEL-FINLAND:TWA 0.1 mg(Se)/m3;STEL 0.3 mg(Se)/m3

OEL-GERMANY:TWA 0.1 mg(Se)/m3

OEL-HUNGARY:STEL 0.1 mg(Se)/m3

OEL-THE NETHERLANDS:TWA 0.2 mg(Se)/m3

OEL-THE PHILIPPINES:TWA 0.2 mg(Se)/m3

OEL-POLAND:TWA 0.1 mg(Se)/m3

OEL-SWEDEN:TWA 0.1 mg(Se)/m3

OEL-SWITZERLAND:TWA 0.1 mg(Se)/m3

OEL-TURKEY:TWA 0.2 mg(Se)/m3

OEL-UNITED KINGDOM:TWA 0.1 mg(Se)/m3

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

US FEDERAL

TSCA

CAS# 3425-46-5 is listed on the TSCA inventory.

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 9/12/1996 Revision #1 Date: 7/04/2000

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