



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

MSDS Name: Selenourea, 99,9+%

Catalog Numbers:

21317-0000, 21317-0010

Synonyms:

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

CAS#	Chemical Name	%	EINECS#	Haz Symbols
630-10-4	Selenourea	99.9+%	211-129-9	

Hazard Symbols: T N

Risk Phrases: 23/24/25 33

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

EMERGENCY OVERVIEW

Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation. Toxic in contact with skin.

Ingestion:

Toxic if swallowed.

Inhalation:

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.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

**** 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 tightly closed container. Store in a dry area. Keep under a nitrogen blanket. Keep refrigerated. (Store below 4°C/39°F.)

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

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.
Personal Protective Equipment

Eyes:

Wear chemical goggles.

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: grey - light pink
Odor: Not available.
pH: Not available.
Vapor Pressure: Not available.
Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: 214 - 215 deg C
Autoignition Temperature: Not available.
Flash Point: Not available.
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature: >200 deg C
Solubility in water: very soluble
Specific Gravity/Density:
Molecular Formula: CH₄N₂Se
Molecular Weight: 123.02

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

Chemical Stability:

Air sensitive. Moisture sensitive.

Conditions to Avoid:

Incompatible materials, exposure to air, exposure to moist air or water.

Incompatibilities with Other Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, nitrogen oxides (NO_x) and ammonia (NH₃), selenium/selenium oxides.

Hazardous Polymerization: Has not been reported

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

RTECS#:

CAS# 630-10-4: YU1820000

LD50/LC50:

CAS# 630-10-4: Dermal, guinea pig: LD50 = >50 mg/kg; Oral, rat: LD50 = 50 mg/kg.

Carcinogenicity:

Selenourea -

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

Other:

See actual entry in RTECS for complete information.

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

Other

Harmful to aquatic life in very low concentrations.

**** 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: 328 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

USA RQ: CAS# 630-10-4: 1000 lb final RQ; 454 kg final RQ

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

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin 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# 630-10-4: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 630-10-4 is listed on Canada's NDSL List.

CAS# 630-10-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 630-10-4: 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# 630-10-4 is listed on the TSCA inventory.

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

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 way shall the company 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 the company has been advised of the possibility of such damages

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