



\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

**Selenium(IV) chloride (-8 mesh), 95%**

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

MSDS Name: **Selenium(IV) chloride (-8 mesh), 95%**

Catalog Numbers:

30175-0000, 30175-0050, 30175-0250, 30175-0500

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

CAS#	Chemical Name	%
10026-03-6	Selenium(IV) chloride (-8 mesh)	95%
233-053-5		

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. The toxicological properties of this material have not been fully investigated. Moisture sensitive.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

Poison by ingestion. May cause alopecia (loss of hair). May cause

central nervous system effects.

Inhalation:

May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause adverse central nervous system effects including headache, convulsions, and possible death. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Toxic if inhaled.

Chronic:  
Prolonged or repeated skin contact may cause dermatitis. May cause anemia and other blood cell abnormalities.

\*\*\*\* 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 full protective gear.

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.

\*\*\*\* 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.

\*\*\*\* 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: Crystalline powder  
Color: yellow  
Odor: Not available.  
pH: Not available.  
Vapor Pressure: Not available.  
Viscosity: Not available.  
Boiling Point: Not available.  
Freezing/Melting Point: 200-210 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: decomposes in water and moist air  
Specific Gravity/Density:  
Molecular Formula: SeCl4  
Molecular Weight: 220.77

\*\*\*\* 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:  
Hydrogen chloride, selenium/selenium oxides.  
Hazardous Polymerization: Has not been reported

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

RTECS#:  
CAS# 10026-03-6: VS7875000  
LD50/LC50:  
Not available.  
Carcinogenicity:  
Selenium(IV) chloride (-8 mesh) -  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
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: III  
IMO  
Shipping Name: SELENIUM COMPOUND, N.O.S.  
Hazard Class: 6.1  
UN Number: 3283  
Packing Group: III  
RID/ADR  
Shipping Name: SELENIUM COMPOUND, N.O.S.  
Hazard Class: 6.1  
UN Number: 3283  
Packing group: III

\*\*\*\* 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 28 After contact with skin, wash immediately  
with...  
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# 10026-03-6: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 10026-03-6 is listed on Canada's NDSL List.

CAS# 10026-03-6 is not listed on Canada's Ingredient

Disclosure List.

Exposure Limits

CAS# 10026-03-6: 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# 10026-03-6 is listed on the TSCA inventory.

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

MSDS Creation Date: 7/16/1996 Revision #1 Date: 7/04/2000

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.

[www.sparchem.com](http://www.sparchem.com)

---