

Material Safety Data Sheet Selenium(IV) oxychloride, 97%

MSDS# 99131

	Section 1 - Chemical Product and Company Identification				
MSDS Name:	Selenium(IV) oxychloride, 97%				
Catalog Numbers:	AC318490000, AC318490050, AC318490100				
Synonyms:	Selenium chlorideoxide; Selenium oxyc	elenium chlorideoxide; Selenium oxychloride; Seleninyl dichloride.			
Company Identification:		Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium			
Company Identification: (USA)		Acros Organics One Reagent Lane Fair Lawn, NJ 07410			
For information in the US, call:		800-ACROS-01			
For information in Europe, call:		+32 14 57 52 11			
Emergency Number, Europe:		+32 14 57 52 99			
Emergency Number US:		201-796-7100			
CHEMTREC Phone Number, US:		800-424-9300			
CHEMTREC Phone Number, Europe:		703-527-3887			

Section 2 - Composition, Information on Ingredients

CAS#:	7791-23-3
Chemical Name:	Selenium(IV) oxychloride
%:	97
EINECS#:	232-244-0

Hazard Symbols:



Risk Phrases:

23/25 33

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Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Causes eye burns. Causes respiratory tract irritation. May cause allergic skin reaction. May be fatal if absorbed through the skin. Corrosive. Water-reactive. Poison! May cause liver and kidney damage. Reacts violently and/or explosively with water, steam or moisture. Target Organs: Kidneys, liver.

Potential Health Effects

Eye: Causes eye burns.

Skin: May be fatal if absorbed through the skin. Causes skin burns. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion: Poison by ingestion. May cause irritation of the digestive tract and possible burns.

Causes respiratory tract irritation. May cause asthmatic attacks due to allergic sensitization of the respiratory Inhalation: tract. May cause pulmonary edema and severe respiratory disturbances. May cause burns to the respiratory tract. Effects of inhalation may be delayed.

May cause reproductive and fetal effects. Chronic exposure to selenium may cause central nervous system

Chronic: effects, digestive tract disturbances, pallor, garlic breath, Chronic exposure to selenium may cause pallor, garlic breath, metallic taste, anemia, liver and spleen damage. Chronic selenium poisoning is characterized by loss of hair and nails, skin lesions, and abnormalities of the nervous system.								
		Section	4 - First Aid Measures					
EVes.	•	eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get cal aid immediately.						
Nkin ²		lical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing nated clothing and shoes. Wash clothing before reuse.						
Ingestion:	Do NOT indu	Do NOT induce vomiting and seek IMMEDIATE MEDICAL ADVICE.						
Inhalation:	difficult, give	bet medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is ifficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial espiration using oxygen and a suitable mechanical device such as a bag and a mask.						
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. Use water spray to keep fire-exposed containers cool. Will react with water to form toxic and corrosive fumes. Reacts violently with water. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.							
Extinguishing Media:								
Autoignitio Temperatur	on Not applic	able.						
Flash Poir	nt: Not applic	able.						
Explosion Limits: Lower:								
Explosic Limits: Uppe	on Not availat er:	ble						
NFPA Ratin	g: ; Special H	azard: -W-						
		Section 6 - A	ccidental Release Measur	res				
General Information:	Use proper personal protective equipment as indicated in Section 8.							
Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Provide ventilation.								
	Section 7 - Handling and Storage							
Handling: Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Wash clothing before reuse. Discard contaminated shoes.								
Storage: Store in a cool, dry place. Keep away from water. Corrosives area. Storage under a nitrogen blanket has been recommended.								
Section 8 - Exposure Controls, Personal Protection								
		+ ACGIH						
Selenium(] oride	IV) oxychl	none listed	none listed	none listed				

OSHA Vacated PELs: Selenium(IV) oxychloride: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Eyes: protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure. Clothing: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Section 9 - Physical and Chemical Properties Physical State: Liquid Color: yellow-green Odor: chlorine-like pH: Not available Vapor Pressure: 0.05 mm Hg @20 deg. Vapor Density: 5.7 (air = 1) Evaporation Rate: Not available Viscosity: Not available Boiling Point: 180 deg C (356.00°F) Freezing/Melting Point: 9 deg C (48.20°F) Decomposition Temperature: Not available Solubility in water: Not available Specific Gravity/Density: 2.4300g/cm3 Molecular Formula: Cl2OSe Molecular Weight: 165.86 Section 10 - Stability and Reactivity Chemical Stability: Stable. However, may decompose if exposed to moist air or water. Conditions to Avoid: Excess heat, exposure to moist air or water. Incompatibilities with Other Strong oxidizing agents, phosphorus. Materials Hazardous Decomposition Hydrogen chloride, hydrogen chloride, selenium/selenium oxides, chloride fumes, selenious acid. Products Hazardous Polymerization Has not been reported. Section 11 - Toxicological Information CAS# 7791-23-3: VS7000000 RTECS#: LD50/LC50: RTECS: Not available. Other: Carcinogenicity: Selenium(IV) oxychloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. The hazards associated with selenium may be seen in this product.. See actual entry in RTECS for Other: complete information. Section 12 - Ecological Information Not available Section 13 - Disposal Considerations Dispose of in a manner consistent with federal, state, and local regulations. Section 14 - Transport Information US DOT Shipping Name: SELENIUM OXYCHLORIDE

Shipping Name: SELENIUM OXYCH Hazard Class: 8 UN Number: UN2879 Packing Group: I Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 23/25 Toxic by inhalation and if swallowed.

R 33 Danger of cumulative effects.

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).

WGK (Water Danger/Protection)

CAS# 7791-23-3: Not available

Canada

CAS# 7791-23-3 is listed on Canada's DSL List

Canadian WHMIS Classifications: E, B6

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7791-23-3 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 7791-23-3 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 4/05/1997 Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 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.
