

Catalog Number: 218278 Revision date: 25-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 218278

Product name: SELENIUM OXYCHLORIDE

Supplier:

MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139

tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

ComponentsCAS NumberWeight %ACGIH Exposure Limits:OSHA Exposure Limits:SELENIUM OXYCHLORIDE7791-23-390 - 100%0.2 mg/m³ TWA0.2 mg/m³ TWA

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Toxic: danger of very serious irreversible effects if swallowed. May also have serious irreversible effects through skin contact or inhalation.

Category of Danger:

Toxic, Carc. cat. 3

Principle routes of exposure: Skin

Inhalation: Harmful: possible risk of irreversible effects through inhalation. **Ingestion:** Toxic: danger of very serious irreversible effects if swallowed.

Skin contact: Harmful: danger of serious damage to health by prolonged skin contact.

Eye contact: Risk of serious damage to eyes

Statements of hazard Toxic if swallowed

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

Precautions - ANSI Label Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not breathe vapors or spray mist

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice **Ingestion:** Drink 1 or 2 glasses of water. Induce vomiting if person is conscious.

Catalog Number: 218278 Product name: SELENIUM OXYCHLORIDE Page 1 of 6

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam

Specific hazards: Burning produces irritant fumes.

Unusual hazards: None known

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Specific methods: Water mist may be used to cool closed containers.

Flash point:

Autoignition temperature:

Not determined

Not determined

NFPA rating:

NFPA Health: 4
NFPA Flammability: 0
NFPA Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:Use personal protective equipment. **Environmental precautions:**Prevent product from entering drains.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling:Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment. Remove and wash

contaminated clothing before reuse.

Technical measures/storage conditions:Keep container tightly closed in a dry and well-ventilated

olace.

Incompatible products: Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Impervious clothing Long sleeved clothing

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid Formula: Se

Catalog Number: 218278 Product name: SELENIUM OXYCHLORIDE Page 2 of 6

Molecular weight:78.96Melting point/range:217 deg. CBoiling point/range:684 +/- 1 deg. CDensity:No data available

Vapor pressure:> 0.001 mm Hg at 20 °CEvaporation rate:No data availableVapor density:No data availableSolubility (in water):No data availableFlash point:Not determined

Autoignition temperature: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: None under normal processing.

Hazardous decomposition products: Selenium (Se)

Materials to avoid: Acids

Strong oxidising agents

Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

SELENIUM OXYCHLORIDE

Acute toxicity

ComponentsRTECS Number:Selected LD50s and LC50sSELENIUM OXYCHLORIDEVS7000000Oral LD50 Rat : 6700 mg/kg

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised

skin), nausea, vomiting, headache.

Primary irritation: No data is available on the product itself.

Carcinogenic effects: Possible carcinogen

Mutagenic effects:

Reproductive toxicity:

No data is available on the product itself.

No data is available on the product itself.

Components NIOSH - Health Effects NIOSH - Target Organs

SELENIUM OXYCHLORIDE Eye, upper respiratory, and skin irritation; respiratory system, eyes, skin, spleen, liver,

damage to the liver, kidney, spleen, and kidneys, blood

heart in animals

12. ECOLOGICAL INFORMATION

Mobility:No data availableBioaccumulation:No data availableEcotoxicity effects:No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

Components U.S. DOT - Appendix B - U.S. DOT - Appendix B - United Kingdom - The Red

Marine PollutanSevere Marine PollutantsList:Not ListedNot ListedNot Listed

Catalog Number: 218278 Product name: SELENIUM OXYCHLORIDE Page 3 of 6

Components Germany VCI (WGK) World Health Organization Ecotoxicity - Fish Species

SELENIUM OXYCHLORIDE Not Listed (WHO) - Drinking Water Data

0.01 mg/L Not Listed

Components Ecotoxicity - Freshwater Ecotoxicity - Microtox Data Ecotoxicity - Water Flea

Algae Data

SELENIUM OXYCHLORIDE Not Listed Not Listed Not Listed

Components EPA - ATSDR Priority List EPA - HPV Challenge California - Priority Toxic

Program Chemical List Pollutants

SELENIUM OXYCHLORIDE Rank (of 275): 143 Not Listed Maximum concentration = reserved: continuous

reserved; continuous concentration = 5.0 ug/L

Components California - Priority Toxic Pollutants

SELENIUM OXYCHLORIDE

No human health criteria is being promulgated for these contaminants.

However, permit authorities should address

these contaminants during the permit

process.

California - Priority Toxic Pollutants

Maximum concentration = 290 ug/L; continuous concentration = 71 ug/L

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate

Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No: 2879

DOT:

Proper shipping name: Selenium oxychloride IATA Hazard Label(s): Corrosive & Toxic

Hazard Class 8 -

Corrosive materials

Subsidiary risk: 6.1 - Toxic

Packing group:

Emergency Response Guide Number (ERG): 157

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities

SELENIUM OXYCHLORIDE RQ = 100 pounds (45.4 kg); The RQ for these hazardous substances is limited to those

pieces of the metal having a diameter smaller than 100 micrometers (0.004 inches).

TDG (Canada):

Catalog Number: 218278 Product name: SELENIUM OXYCHLORIDE Page 4 of 6

WHMIS hazard class: D2b toxic materials

1

IMDG/IMO

Proper shipping name: Selenium oxychloride

IMDG - Hazard Classifications IMDG class or division = 8, 6.1

IMDG - Potential Marine PollutantsUN3283IMDG - Regulated SubstancesUN2879

Components U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine

Pollutants

Pennsylvania Right to Know

SELENIUM OXYCHLORIDE Not Listed Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

SELENIUM OXYCHLORIDE

Inventory - United States TSCA - Sect. 8(b)

Canada DSL Inventory List
Australia (AICS):

Inventory - China:

EU EINECS List
Korean KECL:

Present

231-957-4; Se

KE-30924

Philippines PICCS:

Present

concentration

U.S. regulations:

Components California Proposition 65 Massachusetts Right to New Jersey Right to

Know List: Know List: List:

Not Listed [present] sn 1648 envir

SELENIUM OXYCHLORIDE Not Listed [present] sn 1648 environmental hazard (any compound of this substance is

also an environmental hazard)

Components Florida substance List: Rhode Island Right to Know List: Rhode Island Right to Contaminants Connecticut - Hazardous Air Pollutants

SELENIUM OXYCHLORIDE [present] Toxic [present] 4 ug/m³ HLV (as Se)

Components SARA 313 Emission CERCLA/SARA - Section NTP: IARC:

reporting/Toxic Release 302 Extremely Haz

of Chemicals

SELENIUM OXYCHLORIDE form R reporting required TPQ = 500 pounds; RQ = None None

for 1.0% de minimis 500 pounds

Catalog Number: 218278 Product name: SELENIUM OXYCHLORIDE Page 5 of 6

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant

to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of

1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community

Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in

Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated

product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive

hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet

Catalog Number: 218278 Product name: SELENIUM OXYCHLORIDE Page 6 of 6