

Safety Data Sheet

Section 1 – Identification of the substance/preparation and of the company/undertaking

Identification of the substance or mixture

Product name: CHO-100, 1X

Catalog number: 001-051-**

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Company details

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Section 2 – Hazards identification

GHS- Classification

Respiratory sensitisation

Category 1

Skin sensitisation

Category 1

GHS label elements

Hazard pictograms



Signal Word

Danger

Hazard statements

May cause an allergic skin reaction. H317

May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

Precautionary statements
Prevention

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P261

Contaminated work clothing should not be allowed out of the workplace. P272

Wear protective gloves. P280

Wear respiratory protection. P284

Response
Skin

Wash with plenty of water. P302, P352

If skin irritation or rash occurs, get medical advice/ attention. P333, P313

Inhalation

Take off contaminated clothing and wash it before reuse. P362, P364

Disposal

Dispose of contents/ container to an approved waste disposal plant. P501

Section 3 – Composition/Information on ingredients
Hazardous Components

CAS#	Component	Concentration (% w/w)
10102-18-8	Sodium selenite	>= 0.1 - < 1

Section 4 – First aid measures
Ingestion

Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Inhalation

Move victim to fresh air. If unconscious place in recovery position and seek medical advice.

Skin contact

Rinse with plenty of water.

Eye contact

Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. If inhaled, may cause allergy or asthma symptoms or breathing difficulties.

General advice



Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

Information for doctor

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

Section 5 – Firefighting measures

Apply standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media

High volume water jet

Hazardous combustion products

No data available

Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 – Accidental release measures

Personal precaution, protective equipment and emergency procedures

Ensure adequate ventilation. Always wear protective Equipment. Dilute with plenty of water. Do not allow to enter sewer/ surface or ground water.

Methods and material for containment and cleaning up

Keep in suitable, closed containers for disposal.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Section 7 – Handling and storage

Precaution for safe handling

Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes.

Use a personal protection.

Smoking, eating and drinking should be prohibited in the application area.

Provide sufficient air exchange and/or exhaust in work rooms.



Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Condition for safe storage, including any incapability

Keep container tightly closed in a dry and well-ventilated place.

Electrical installations / working materials must comply with the technological safety standards. Keep away from oxidants, alkaline product to avoid exothermic reactions.

Section 8 – Exposure controls/personal protection

Control parameters

Exposure limits

Sodium selenite

Type of exposition: TWA, VEMP

Concentration allowed: 0.1 -0.2 mg/m³

General protective and hygienic measures

Hand protection

Protective gloves.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection

Eye wash bottle with pure water. Tightly fitting safety goggles

Breathing equipment

Wear respirators (type ABEK EN 14387) and components tested and approved under government standards if insufficient ventilation.

Skin and body protection

Wear suitable protective clothing.

Hygiene measures

Wash hands before and after exposure.

Environmental exposure controls

Prevent product from entering drains.

Section 9 – Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Auto ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Evaporation rate	No data available
Flammability	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density	No data available
Specific gravity	No data available
Water Solubility	No data available
Solubility (solvents)	No data available
Partition coefficient	No data available
Explosive properties	No data available

Section 10 – Stability and reactivity

Reactivity

No data available.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No data available.

Condition to avoid

No data available

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No decomposition if stored and applied as directed.

Section 11 – Toxicological information

Information on toxicological effects

Not classified based on available information.

Principal Routes of Exposure

Inhalation

Estimation of toxicity: > 10 mg/l. Time exposition: 4h

Oral

Estimation of toxicity: 2,880 mg/kg

DL50 oral (mouse): 7.08 mg/kg

DL50 orale (rabbit): 2.25 mg/kg

DL50 orale (Rat): 7 mg/kg

Sensitization

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT - Single Exposure

No data available

STOT - Repeated Exposure

No data available

Carcinogenicity

No data available

Mutagenicity

No data available

Reproductive toxicity

No data available

Aspiration hazard

No data available

Section 12 –Ecological information

Ecotoxicity

Not expected to adsorb on soil.

Toxicity for fish: CL50 (Leuciscus idus (Ide)): 105 mg/l, CL50 (Daphnia magna (Puce d'eau)): 0.25 mg/l

Exposition time: 48 h

Persistence and degradability

No data available

Behaviour in environmental systems

Bioaccumulative potential

No information available

Other adverse effects

No information available

Section 13 – Disposal considerations

Recommendation

Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Can be disposed as waste water, when in compliance with local regulations

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section 14 – Transport information

TDG (CAN)

Not regulated as dangerous

IATA-DGR

Not regulated as dangerous

IMDG-code

Not regulated as dangerous

National Regulations

Not regulated as dangerous

Section 15 – Regulatory information

WHMIS Classification

Product classified according to the hazard criteria set out in the Controlled Products Regulations.

Section 16 – Other information

MSDS Date of revision: May 1st 2019

For research use only. Not use for diagnostic procedures.

The shared information was obtained from a study and the recommendations are based on prudent applications.