



Insulin-Transferrin-Selenium Mixture

1. IDENTIFICATION OF THE PREPARATION/SUBSTANCE AND OF THE COMPANY

Preparation Name: Insulin-Transferrin-Selenium Mixture

Catalogue number of the product: CC002-1000

Use of the preparation:

For laboratory use.

Company identification:

GeneDireX, Inc.

Website: www.genedirex.com

2. COMPOSITION/ INFORMATION ON INGREDIENTS

GHS - Classification

Signal Word

None

Health hazards

Not classified

Hazard Statements

Not Applicable

Precautionary Statements

Not Applicable

Principle Routes of Exposure

Potential Health Effects

Eyes

May cause eye irritation with susceptible persons.

Skin

May cause skin irritation in susceptible persons.

Inhalation

May be harmful by inhalation.

Ingestion

May be harmful if swallowed.

Specific effects

Carcinogenic effects

None.

Mutagenic effects

None.

Reproductive toxicity

None.

Sensitization

None.

Target Organ Effects

No known effects under normal use conditions.

HMIS

Health

0

Flammability

0

Reactivity

0

3. COMPOSITION/ INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical Name

CAS-No

EINECS-No

Weight %

Sodium selenite

10102-18-8

-

<0.000335

4. FIRST-AID MEASURES

Skin contact

Rinse cautiously with water for several minutes. Immediate medical attention is not required.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Ingestion

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.



Material Safety Data Sheet

inhalation Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed Not Applicable

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.
Special protective equipment for fire fighters Standard procedure for chemical fires.
Specific hazards arising from the chemical Not known

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Always wear recommended Personal Protective Equipment.
Use personal protection equipment.
Methods for cleaning up Soak up with inert absorbent material.
Environmental precautions No special environmental precautions required.
See Section 12 for more information.

7. HANDLING AND STORAGE

Handling Always wear recommended Personal Protective Equipment.
No special handling advices are necessary.
Storage Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits
Chemical Name OSHA PEL OSHA PEL (Ceiling) ACGIH OEL (TWA) ACGIH OEL (STEL)
Sodium selenite 0.2 mg/m³ None 0.2 mg/m³ None

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Impervious gloves.
Eye protection Wear safety glasses with side shields (or goggles).
Skin and Body Protection Lightweight protective clothing.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Form Liquid
Appearance No data available
Odor No data available
Odor Threshold No data available
Boiling point / boiling range °C No data available °F No data available
Melting point / melting range °C No data available °F No data available
Flash point °C No data available °F No data available
Autoignition Temperature °C No data available °F No data available



Material Safety Data Sheet

Oxidizing properties	No data available
Water solubility soluble	
Upper explosion limit	No data available
Lower explosion limit	No data available
Partition coefficient n-octanol/water	No data available
Vapor Pressure	No data available
vapor density	No data available
Viscosity	No data available
pH value	No data available
pH range	6-8

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	No dangerous reaction known under conditions of normal use
Possibility of hazardous reactions	Hazardous reaction has not been reported.
Hazardous decomposition products	None under normal use conditions.
Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity			
Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Sodium selenite	= 7 mg/kg (Rat)	No data available	No data available

Principle Routes of Exposure

Potential Health Effects

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.
Target Organ Effects	No known effects under normal use conditions

12. ECOLOGICAL INFORMATION

Ecotoxicity	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Mobility	No information available.
Biodegradation	Inherently biodegradable
Bioaccumulation	Material does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of contents/containers in accordance with local regulations.



Material Safety Data Sheet

14. TRANSPORT INFORMATION

IATA	
Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None
Environmental hazards	None

15. REGULATORY INFORMATION

Component US	TSCA
Sodium selenite 10102-18-8 (<0.00011)	Listed
US Federal Regulations	
SARA 313	

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
Sodium selenite	Listed	--	Listed	Listed	Listed

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

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

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. GeneDirex, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.