

SAFETY DATA SHEET

Revision Date: 10-Dec-2025
Revision Number 4

LSS-401 – HiDef ITS 100X

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

Product Identifier

Product Name HiDef ITS 100X

Other means of identification

Catalog Number LSS-401

Document Number DX20251210-04

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory Reagent
PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Details of the supplier of the safety data sheet

Manufacturer/Supplier

DEFINED BIOSCIENCE, INC.
7770 REGENTS RD #113238
SAN DIEGO, CA 921221937 USA

Emergency telephone number

Emergency Telephone 929-333-4633

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

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Hazard statements

- H302: Harmful if swallowed.
- H360: May damage fertility or unborn child.
- H319: Causes serious eye irritation.
- H411: Toxic to aquatic life with long-lasting effects.

Appearance Clear

Physical state Liquid

Odor No information available

Other Information

- P201: Obtain special instructions before use.
- P273: Avoid release to the environment.
- P280: Wear protective gloves and eye protection.
- P301 + P310: If swallowed: Immediately call a poison center or doctor.

Unknown acute toxicity

- 0 % of the mixture consists of ingredient(s) of unknown toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Ingredient	CAS Number	% w/v*	Classification
Sodium Selenite (NaSe)	10102-18-8	<0.001%	Acute Toxicity (Category 3, Oral).
Insulin	11070-73-8	<0.1%	Not classified as hazardous.
Transferrin	11096-37-0	<5%	Not classified as hazardous.

Mixture

Not a hazardous mixture according to the Globally Harmonized System (GHS), beyond information given above (see **Substance**).

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

- Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. If irritation persists, seek medical attention.
- Skin Contact:** Wash thoroughly with soap and water. If irritation occurs, consult a doctor.
- Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- Ingestion:** Rinse mouth with water. Do not induce vomiting. Call a poison control center or doctor immediately.

Most important symptoms and effect, both acute and delayed

Symptoms

No information available.

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7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid inhalation, contact with skin, clothing, and eyes. Use in well-ventilated areas.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Use safety glasses with side shields.

Skin and body protection Use chemical-resistant gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear
Color Pale red
Odor No information available
Odor threshold No information available

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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	
<u>Other Information</u>		
Softening point	No information available	
Molecular weight	No information available	
Molecular formula	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	

10. STABILITY AND REACTIVITY

Reactivity	No information available
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None under normal processing
Conditions to avoid	None known based on information supplied.
Incompatible Materials	Strong oxidizers, acids, and bases.
Hazardous decomposition products	None under normal conditions.

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available

Numerical measures of toxicity

Acute toxicity

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT – single exposure	No information available.
Persistence and degradability	No information available.
Bioaccumulation	No information available.

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12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic life with long-lasting effects.
Persistence and degradability	No information available.
Bioaccumulation	No information available.
Other adverse effects	No information available.

13. DISPOSAL INFORMATION

Waste treatment methods

Waste from residues/unused Products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO (air)</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

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15. REGULATORY INFORMATION

International Inventories

TSCA	Sodium selenite is listed.
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

This product contains substances regulated under **Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):**

- **Sodium Selenite (CAS 10102-18-8):** Listed under SARA 313 for toxic chemical release reporting.

SARA 311/312 Hazard Categories

Acute health hazard	Yes (sodium selenite)
Chronic Health Hazard	Yes (sodium selenite)
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substance regulated as a pollutant under the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

- **Sodium Selenite (CAS 10102-18-8):** Listed as a hazardous substance.

CERCLA

This material, as supplied, contains **Sodium Selenite (CAS 10102-18-8)**, which is regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302), bulk-dependent:

- **Reportable Quantity (RQ):** 1 pound (0.454 kg).

US State Regulations



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California Proposition 65

This product contains the following chemical(s) known to the State of California to cause cancer or reproductive harm:

- None noted.

U.S. State Right-to-Know Regulations

US State Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water (CAS 7732-18-5)	-	-	X
Sodium Selenite (CAS 10102-18-8)	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By, Quality Control. Defined Bioscience, Inc.

Revision Date 10-Dec-2025

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Defined Bioscience, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

End of Safety Data Sheet