



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
OSHA 29 CFR 1910.1200

Document Type US - OSHA GHS

Revision date 13-Dec-2023

Version 6

## 1. Identification

### Product identifier

Product name 10X Zinc

### Other means of identification

Product No B0768

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use This product is for research and development only

Restrictions on use No information available

### Details of the supplier of the safety data sheet

#### **Supplier Address**

New England BioLabs  
240 County Road  
Ipswich, MA 01938  
USA

### Emergency telephone number

Company Phone Number 978-927-5054, 800-632-5227 (toll free)

Telefax 978-921-1350

E-mail address info@neb.com

24 Hour Emergency Phone Number Chemtrec +1 703-741-5970

## 2. Hazard(s) identification

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

### Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Other information

Causes mild skin irritation. Harmful to aquatic life with long lasting effects.

## 3. Composition/information on ingredients

### Substance

Not applicable.

### Mixture

| Chemical name | CAS No.   | Weight-% | Trade secret |
|---------------|-----------|----------|--------------|
| Zinc Chloride | 7646-85-7 | 0.1 - 1  | *            |

## 4. First-aid measures

### Description of first aid measures

|              |                                                                                                                         |
|--------------|-------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Remove to fresh air.                                                                                                    |
| Eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.<br>Consult a physician. |
| Skin contact | Wash skin with soap and water.                                                                                          |
| Ingestion    | Rinse mouth.                                                                                                            |

### Most important symptoms and effects, both acute and delayed

**Symptoms** Prolonged contact may cause redness and irritation.

**Effects of Exposure** No information available.

### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

## 5. Fire-fighting measures

|                                                                       |                                                                                                                                    |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>                                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Large Fire</b>                                                     | CAUTION: Use of water spray when fighting fire may be inefficient.                                                                 |
| <b>Unsuitable extinguishing media</b>                                 | Do not scatter spilled material with high pressure water streams.                                                                  |
| <b>Specific hazards arising from the chemical</b>                     | No information available.                                                                                                          |
| <b>Explosion data</b>                                                 |                                                                                                                                    |
| <b>Sensitivity to mechanical impact</b>                               | None.                                                                                                                              |
| <b>Sensitivity to static discharge</b>                                | None.                                                                                                                              |
| <b>Special protective equipment and precautions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

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

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure Limits

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---------------|-----------|----------|-------|
|---------------|-----------|----------|-------|

|                            |                                                                 |                                                                                                                      |                                                                                                    |
|----------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Zinc Chloride<br>7646-85-7 | STEL: 2 mg/m <sup>3</sup> fume<br>TWA: 1 mg/m <sup>3</sup> fume | TWA: 1 mg/m <sup>3</sup> fume<br>(vacated) TWA: 1 mg/m <sup>3</sup> fume<br>(vacated) STEL: 2 mg/m <sup>3</sup> fume | IDLH: 50 mg/m <sup>3</sup> fume<br>TWA: 1 mg/m <sup>3</sup> fume<br>STEL: 2 mg/m <sup>3</sup> fume |
|----------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|

**Other information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**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** Colorless  
**Color** No information available  
**Odor** Odorless  
**Odor threshold** No information available

| <u>Property</u>                         | <u>Values</u>     | <u>Remarks • Method</u> |
|-----------------------------------------|-------------------|-------------------------|
| pH                                      | 5                 |                         |
| Melting point / freezing point          | No data available | None known              |
| Initial boiling point and 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 or explosive limits  | No data available |                         |
| Lower flammability or explosive limits  | 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(ies)                         | No data available | None known              |
| Partition coefficient                   | No data available | None known              |
| Autoignition temperature                | No data available | None known              |
| Decomposition temperature               |                   | None known              |
| Kinematic viscosity                     | No data available | None known              |
| Dynamic viscosity                       | No data available | None known              |

**Other information**

|                             |                          |
|-----------------------------|--------------------------|
| <b>Explosive properties</b> | No information available |
| <b>Oxidizing properties</b> | No information available |
| <b>Softening point</b>      | No information available |
| <b>Molecular weight</b>     | No information available |
| <b>VOC content</b>          | No information available |
| <b>Liquid Density</b>       | No information available |
| <b>Bulk density</b>         | No information available |

**10. Stability and reactivity**

|                                           |                                           |
|-------------------------------------------|-------------------------------------------|
| <b>Reactivity</b>                         | No information available.                 |
| <b>Chemical stability</b>                 | Stable under normal conditions.           |
| <b>Possibility of hazardous reactions</b> | None under normal processing.             |
| <b>Conditions to avoid</b>                | None known based on information supplied. |
| <b>Incompatible materials</b>             | None known based on information supplied. |
| <b>Hazardous decomposition products</b>   | None known based on information supplied. |

**11. Toxicological information****Information on likely routes of exposure**

|                     |                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available.                              |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available.                              |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes mild skin irritation. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available.                              |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| <b>Symptoms</b> | Prolonged contact may cause redness and irritation. |
|-----------------|-----------------------------------------------------|

**Acute toxicity****Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                  |
|--------------------------------------|------------------|
| <b>ATEmix (oral)</b>                 | 99,999.00 mg/kg  |
| <b>ATEmix (dermal)</b>               | 99,999.00 mg/kg  |
| <b>ATEmix (inhalation-gas)</b>       | 99,999.00 ppm    |
| <b>ATEmix (inhalation-dust/mist)</b> | 99,999.0000 mg/l |
| <b>ATEmix (inhalation-vapor)</b>     | 99,999.00 mg/l   |

**Component Information**

| Chemical name              | Oral LD50            | Dermal LD50 | Inhalation LC50                          |
|----------------------------|----------------------|-------------|------------------------------------------|
| Zinc Chloride<br>7646-85-7 | = 1100 mg/kg ( Rat ) | -           | <= 1975 mg/m <sup>3</sup> ( Rat ) 10 min |

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

|                                          |                                                                                      |
|------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Causes mild skin irritation. |
| <b>Serious eye damage/eye irritation</b> | No information available.                                                            |
| <b>Respiratory or skin sensitization</b> | No information available.                                                            |
| <b>Germ cell mutagenicity</b>            | No information available.                                                            |
| <b>Carcinogenicity</b>                   | No information available.                                                            |
| <b>Reproductive toxicity</b>             | No information available.                                                            |
| <b>STOT - single exposure</b>            | No information available.                                                            |
| <b>STOT - repeated exposure</b>          | No information available.                                                            |
| <b>Aspiration hazard</b>                 | No information available.                                                            |
| <b>Other adverse effects</b>             | No information available.                                                            |
| <b>Interactive effects</b>               | No information available.                                                            |

## 12. Ecological information

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| <b>Ecotoxicity</b>                   | Harmful to aquatic life with long lasting effects. |
| <b>Persistence and degradability</b> | No information available.                          |
| <b>Bioaccumulation</b>               | There is no data for this product.                 |
| <b>Other adverse effects</b>         | No information available.                          |

## 13. Disposal considerations

### Waste treatment methods

|                                            |                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.                                                                                  |

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste.

## 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 |

## 15. Regulatory information

### International Inventories

|                      |                                                   |
|----------------------|---------------------------------------------------|
| <b>TSCA</b>          | Contact supplier for inventory compliance status. |
| <b>DSL/NDL</b>       | Contact supplier for inventory compliance status. |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status. |
| <b>ENCS</b>          | Contact supplier for inventory compliance status. |
| <b>IECSC</b>         | Contact supplier for inventory compliance status. |
| <b>KECL</b>          | Contact supplier for inventory compliance status. |
| <b>PICCS</b>         | Contact supplier for inventory compliance status. |
| <b>AIIC</b>          | Contact supplier for inventory compliance status. |
| <b>NZIoC</b>         | Contact supplier for inventory compliance status. |

### Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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  
**NZIoC** - New Zealand Inventory of Chemicals

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name             | SARA 313 - Threshold Values % |
|---------------------------|-------------------------------|
| Zinc Chloride - 7646-85-7 | 1.0                           |

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and

40 CFR 122.42).

| Chemical name              | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Zinc Chloride<br>7646-85-7 | 1000 lb                     | X                      | -                         | X                          |

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name              | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ)                  |
|----------------------------|--------------------------|------------------------------------|-------------------------------------------|
| Zinc Chloride<br>7646-85-7 | 1000 lb                  | -                                  | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name              | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|------------|---------------|--------------|
| Zinc Chloride<br>7646-85-7 | X          | X             | X            |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. Other information**

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 0 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 0 | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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**Revision note** SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.

**Disclaimer**

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**End of Safety Data Sheet**