

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/21/2017 Reviewed on 11/21/2017

1 Identification

- · Product Identifier
- · Trade name: Triplex Zinc Organic
- Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description Fertilizer
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: Redox Chemicals LLC 130 South 100 West

PO Box 129 Burley, ID 83318 Phone: 208-678-2610 Fax: 208-677-3609

· Emergency telephone number: 208-678-2610

2 Hazard(s) Identification

· Classification of the substance or mixture:



GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aguatic Chronic 1 H410 Very toxic to aguatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- · Label elements:
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS07 GHS09

· Signal word: Warning

· Hazard-determining components of labeling:

zinc powder -zinc dust (pyrophoric)

· Hazard statements:

H315+H320 Causes skin and eye irritation. H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements:

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



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/21/2017 Reviewed on 11/21/2017

Trade name: Triplex Zinc Organic

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· NFPA ratings (scale 0 - 4)



Health = 1 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 1 Fire = 0

REACTIVITY O Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:

CAS: 7440-66-6 zinc powder -zinc dust (pyrophoric)
RTECS: ZG 8600000 Pyr. Sol. 1, H250: Water-react. 1

Pyr. Sol. 1, H250; Water-react. 1, H260; 🌭 Aquatic Acute 1, H400; Aquatic

© Pyr. Soi. 1, H250; Water-react. 1, H260; & Aquatic Acute 1, H400; Aquatic Chronic 1, H410; (1) Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures:
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: If skin irritation occurs, consult a doctor.
- · After eye contact:

If easy to do so, remove contact lenses if worn.

15-35%



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Trade name: Triplex Zinc Organic

If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

- · After swallowing: If swallowed and symptoms occur, consult a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media:
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters:
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:	
7440-66-6 zinc powder -zinc dust (pyrophoric)	6 mg/m³
· PAC-2:	
7440-66-6 zinc powder -zinc dust (pyrophoric)	21 mg/m³
· PAC-3:	
7440-66-6 zinc powder -zinc dust (pyrophoric)	120 mg/m³

7 Handling and Storage

- · Handling
- · Precautions for safe handling: No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- · Storage
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

· Additional information about design of technical systems: No further data; see section 7.

(Contd. on page 4)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/21/2017 Reviewed on 11/21/2017

Trade name: Triplex Zinc Organic

- · Control parameters:
- · Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

- · Eye protection: Not required.
- Limitation and supervision of exposure into the environment:

Keep away from drains, surface and ground waters.

Avoid release into the environment.

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Powder
Color: Brown

Odor: Characteristic
Odor threshold: Not determined.

· pH-value @ 20 °C (68 °F): 6.5

Change in condition

Melting point/Melting range:Not determined.Boiling point/Boiling range:≥907 °C (≥1,664.6 °F)

· Flash point: None

· Flammability (solid, gaseous): Not determined.

(Contd. on page 5)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Ignition temperature: Not applicable
 Decomposition temperature: Not determined.

· Auto igniting: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined. **Upper:** Not determined.

· Vapor pressure @ 487 °C (908.6 °F): ≤1 hPa (≤0.8 mm Hg)

• **Density @ 20 °C (68 °F):** 7.14 g/cm³ (59.583 lbs/gal)

Bulk density: 7,140 kg/m³
 Relative density: Not determined.
 Vapor density: Not applicable.
 Evaporation rate: Not applicable.

· Solubility in / Miscibility with:

Water: Soluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

Solvent content:

VOC content: 0.00 %

• Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

7440-66-6 zinc powder -zinc dust (pyrophoric)

Oral LD50 >2,000 mg/kg (Rat) Inhalative LC50/4 h >5,410 mg/l (Rat)

- · Primary irritant effect:
- On the skin: No irritating effect.
- · On the eye: Irritating effect.

(Contd. on page 6)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/21/2017 Reviewed on 11/21/2017

Trade name: Triplex Zinc Organic

- · Additional toxicological information:
- Carcinogenic categories:
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · *Mobility in soil:* No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods:
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

· UN-Number:

· **DOT** Non-Regulated Material

· ADR/ADN, IMDG, IATA UN3077

· UN proper shipping name:

· **DOT** Non-Regulated Material

· ADR/ADN UN3077 Environmentally hazardous substances, solid, n.o.s.

(Zinc powder)

· IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (ZINC POWDER), MARINE POLLUTANT

· IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (ZINC POWDER)

(Contd. on page 7)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/21/2017 Reviewed on 11/21/2017

Trade name: Triplex Zinc Organic

· Transport hazard class(es):

· DOT

· Class: Non-Regulated Material

· ADR/ADN



· Class: 9 (M7) Miscellaneous dangerous substances and articles

· Label:

· IMDG, IATA



· Class: 9 Miscellaneous dangerous substances and articles

· Label:

· Packing group:

· **DOT** Non-Regulated Material

· ADR/ADN, IMDG, IATA

· Environmental hazards: Product contains environmentally hazardous substances: zinc

powder -zinc dust (pyrophoric)

Special marking (ADR/ADN):
Special marking (IATA):
Symbol (fish and tree)
Symbol (fish and tree)

Special precautions for user: Warning: Miscellaneous dangerous substances and articles

• Danger code (Kemler): 90 • EMS Number: F-A,S-F

• Segregation groups: Heavy metals and their salts (including their organometallic

compounds)

· Stowage Category A

Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12

and 7.7.3.9.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

· Transport/Additional information:

· ADR/ADN

• Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

· IMDG

Limited quantities (LQ):
 Excepted quantities (EQ):
 Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

· UN "Model Regulation": UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCES,

SOLID, N.O.S. (ZINC POWDER), 9, III

(Contd. on page 8)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/21/2017 Reviewed on 11/21/2017

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15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

- · California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· New Jersey Right-to-Know List:

All ingredients are listed.

· New Jersey Special Hazardous Substance List:

7440-66-6 zinc powder -zinc dust (pyrophoric)

F3, R1

Pennsylvania Right-to-Know List:

All ingredients are listed.

· Pennsylvania Special Hazardous Substance List:

7440-66-6 zinc powder -zinc dust (pyrophoric)

E

- · Carcinogenic categories:
- · EPA (Environmental Protection Agency):

7440-66-6 zinc powder -zinc dust (pyrophoric)

D

• TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS07 GHS09



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· Signal word: Warning

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· Hazard statements:

H315+H320 Causes skin and eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements:

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

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 11/21/2017 / 1

· Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic





OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/21/2017 Reviewed on 11/21/2017

Trade name: Triplex Zinc Organic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Pyr. Sol. 1: Pyrophoric solids - Category 1

Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1
Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

* Data compared to the previous version altered.

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