



North Metal and Chemical Company

1. Company Identification and Product Hazard Overview:

Product Name: NorthChem 3033, Zinc Sulfate Solution
Recommended Use: For industrial or agricultural use.
Manufactured by: NORTH Metal and Chemical Company
P. O. Box 1985
York, PA USA 17405
Tel: 717-845-8646
Email: north@northmetal.net
609 E. King St.
York, PA USA 17403
Fax: 717-846-7350
Website: www.northmetal.net

In Case of Emergency Call CHEMTREC (24 Hours): 1-800-424-9300

2. Hazard Identification:

GHS Classification: Acute Toxicity—Oral Category 4
Signal Word: WARNING
Pictogram:



Hazard Statements:

H302 : May be harmful if swallowed

Precautionary Statements:

P264 : Wash face, hands, and any exposed skin thoroughly after handling

P270 : Do not eat, drink, or smoke when using this product

Response Statements:

P301+P310 : IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P330 : Rinse mouth

3. Composition/Information on Ingredient:

| Common Name | CAS Number | Weight % |
|--------------|------------|----------|
| Zinc sulfate | 7733-02-0 | 32-34% |
| Water | 7732-18-15 | 66-68% |

4. First Aid Measures:

- Eyes** : Flush eyes with running water for at least fifteen minutes. Remove any contact lenses. If irritation persists, get medical aid.
- Skin** : Flush skin with running water for fifteen minutes.
- Ingestion** : Rinse mouth out and drink a glass of water. If the product is swallowed, do not induce vomiting.
- Inhalation** : If safe to do so, remove individual from further exposure. Supply fresh air. If cough or other symptoms develop, call doctor/poison center immediately.
- PPE first responders** : Gloves and safety goggles are highly recommended.

5. Fire Fighting Measures:

- Fire/Explosion Hazard** : Negligible fire hazard when exposed to flame.
- Extinguishing Media** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
- General Hazard** : Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke.
- Fire Fighting Procedures:** This product is a non-flammable substance. No acute hazard.
- Special hazards arising from the substance or mixture: Carbon oxides and Sulphur oxides
- Fire Fighting Equipment:** Full protective equipment (bunker gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. If possible, firefighters should control run-off water to prevent environmental contamination.

6. Accidental Release Measures:

- Protective Gear for Personnel:** : Gloves and eye goggles.
- Spill Clean-up Procedures:** : Can be carefully reacted with sodium carbonate to form an insoluble zinc carbonate solid that can be scooped up and sent to an approved disposal facility. Keep in suitable closed containers for disposal. Dispose of in accordance with federal, state, and local regulations.
- Environmental Precaution:** : Do not allow to enter sewers or ground water, or penetrate the soil.

7. Handling and Storage:

- Handling** : Further Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8 .
- Storage** : Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Observe all federal, state and local regulations when storing or disposing of this substance.

8. Exposure Controls and Personal Protection:

- Exposure Control** : No exposure limits noted for ingredients
- Engineering Controls** : Use adequate exhaust ventilation to prevent inhalation of product vapors. Maintain eyewash / safety shower stations in areas where chemical is handled.
- Personal Protective Equipment** : **Eyes and face:** Wear safety glasses with side shields or goggles when handling this material.
Skin: Wear protective clothing and gloves when handling this product to prevent prolonged skin contact.
Respiratory: Ensure adequate ventilation especially in confined areas.
- Work Hygienic Practices:** Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed. Do not eat, drink, or smoke when using this product.

9. Chemical and Physical Properties:

| | | | |
|---------------------------|------------------|-------------------------------|-------------------------|
| Appearance/Color | : Clear liquid | Partition Coefficient | : Not available |
| Odor | : Odorless | Solubility | : Soluble in water 100% |
| Odor threshold | : N/A | pH | : 2.5-6.0 |
| Flash Point | : Not available | Melting/Freezing Point | : 21° C, 70° F |
| Evaporation Rate | : Not available | Boiling Range | : 104° C, 219° F |
| Auto-ignition Temp | : Not available | Flammability | : Not flammable |
| Decomposition Temp | : Not available | Specific Gravity | : 1.405-1.445 |
| Vapor Pressure | : Not available | | |
| Vapor Density | : Vapor is water | | |

10. Stability and Reactivity:

Stability : The product is stable under normal ambient conditions of temperature and pressure.

Hazardous

Decomposition Products : Toxic gases may be formed by fire

Hazardous

Polymerization : Will not occur

Incompatible Materials : None known

11. Toxicological Information:

Toxicity Data

| | |
|----------------------|---|
| LD50 | : 500 mg/kg oral, rat |
| EC50 | : 64.8 mg/L:72hrs Chlorella Vulgaris, 0.162 mg/L:96hrs Oncorhynchus mykiss, 0.75 mg/L:48hrs Daphnia magna |
| Skin Contact | : Avoid contact with skin |
| Eye Contact | : Avoid contact with eyes |
| Sensitization | : None Known |

Chronic Toxicity

| | |
|------------------------------|--------------------|
| Carcinogenic Listings | : Not a carcinogen |
| Mutagenicity | : None known |

12. Ecological Information:

Biological oxygen demand (BOD) : Not determined

Chemical oxygen demand (COD) : Not Determined

13. Disposal Considerations:

Disposal Method : Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

Product Disposal : Recycle or reuse whenever possible. Uncontaminated waste may be returned to the manufacturer. Disposal should be in accordance with applicable regional, national, and local laws and regulations

14. Transport Information:

| Regulatory Information | UN No. | Proper Shipping Name | Hazard Class | Packing Group |
|------------------------|--------|---|--------------|---------------|
| US DOT | 3082 | Environmentally Hazardous Substance, Liquid, NOS (Zinc Sulfate) | 9 | III |
| IMDG | 3082 | Environmentally Hazardous Substance, Liquid, NOS (Zinc Sulfate) | 9 | III |
| IATA | 3082 | Environmentally Hazardous Substance, Liquid, NOS (Zinc Sulfate) | 9 | III |

15. Regulatory Information:

U.S. Federal Regulations:

TSCA Inventory Status : This product is listed as active on the TSCA inventory

CERCLA Section 103: regulates as a hazardous substance. RQ 1000 lbs

SARA TITLE III (EPCRA) Section 311/312: This product was found to be on the acute hazard list.

California Proposition 65: This product is not listed.

Pennsylvania and New Jersey Right to Know Components: Zinc Sulfate, CAS# 7733-02-0

16. Other Information:

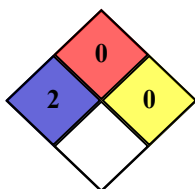
HMIS Rating:*

| | |
|---------------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | D |

| RATING | HEALTH | FIRE HAZARD | PHYSICAL HAZARD |
|--------|--|---------------------------------------|--|
| 0 | No significant risk to health | Will not burn | Product stable under ambient temperature and condition. |
| 1 | Can cause irritation or minor reversible injury. | Must be preheated to burn | Product can become unstable at high temperatures and pressures. |
| 2 | Can cause temporary or residual injury | Ignites when moderately heated | Product can become unstable and cause violent chemical reaction at normal pressures and temperatures |
| 3 | Can cause serious injury | Ignition occurs at normal temperature | Product capable of forming explosive mixtures and is capable of detonation in presence of strong initiating source. |
| 4 | Can be lethal from single or repeated exposure. | Extremely flammable | Product is highly explosive and unstable. Exothermic reactions possible with decomposition, polymerization, reaction with water or self reaction |

Personal Protection D - Face Shield, gloves, and apron

NFPA Rating:*



| RATING | HEALTH | FIRE HAZARD | REACTIVITY |
|--------|---|---------------------------------------|---|
| 0 | Minimal Hazard | Will not burn | Normally Stable |
| 1 | Can cause significant irritation | Must be preheated to burn | Unstable at high temperatures |
| 2 | Can cause temporary incapacitation or residual injury | Ignites when moderately heated | Normally unstable. Can readily go under violent chemical reaction but do not detonate. |
| 3 | Can cause permanent injury. | Ignition occurs at normal temperature | Capable of detonation, or of explosive reaction, but requires a strong ignition source. |
| 4 | Can be lethal. | Extremely flammable | May explode at normal temperatures and pressures |

Revision Date: April 22, 2025

Reasons for Revision : Initial Document Creation.

The information contained in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer/supplier, they are not held responsible for loss, injury, and expense arising out of the product's use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this MSDS.