

# SAFETY DATA SHEET

## 1. Identification

**GHS Product identifier:** **ROCO-002ZN**

**Other means of identification**  
**Common name(s):** Zinc bis(trifluoromethylsulfonyl)imide

**Synonym(s):** Zinc Air Battery, Zinc Salt

**SDS number:** ROCO-ZH010

**Recommended use and restriction on use recommended use:** Laboratory chemicals, Synthesis of substances.

### Manufacturer/Importer/Supplier/Distributor Information

**Manufacturer**

Company Name: ROCO Global  
Address: 1816 Parkway View Drive  
Pittsburgh, PA 15205  
Telephone: Product Information: 1-724-315-9170  
SDS Information Email: [info@roco.global](mailto:info@roco.global)

**Emergency telephone number:**  
1-724-315-9170 (Roco Global)

## 2. Hazard(s) identification

### Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302  
Serious eye damage (Category 1), H318  
Short-term (acute) aquatic hazard (Category 2), H401  
Long-term (chronic) aquatic hazard (Category 2), H411  
For the full text of the H-Statements mentioned in this Section, see Section 16.

#### GHS Label elements, including precautionary statements



**Signal Word:** Warning

#### Hazard Statement:

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Precautionary statement(s)**

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ eye protection/ face protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS – none**

**3. Composition/information on ingredients**

**Substances**

Synonyms Zn(NTf<sub>2</sub>)<sub>2</sub>  
 Formula C<sub>4</sub>F<sub>12</sub>N<sub>2</sub>O<sub>8</sub>S<sub>4</sub>Zn  
 Molecular weight 625.68 g/mol  
 CAS-No. 168106-25-0

Component	Classification	Concentration
zinc di[bis(trifluoromethylsulfonyl)imide]		
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. First-aid measures**

**Description of first-aid measures**

- General advice:** Consult a physician, Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.
- Inhalation:** If breathed in, move person to fresh air If not breathing, give artificial respiration. Consult a physician

<b>Skin Contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>Eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If Swallowed:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	the most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Indication of any immediate Medical attention and special treatment needed</b>	No data available

## 5. Fire-fighting measures

<b>Extinguishing media:</b>	
<b>Suitable extinguishing media:</b>	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
<b>Specific hazards arising from the chemical:</b>	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen fluoride, Zinc/zinc oxides
<b>Advice for Firefighter</b>	In the event of fire, wear self-contained breathing apparatus.
<b>Further information</b>	No data available

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.  For personal protection see section 8
<b>Environmental precautions</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleaning up</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
<b>Reference to other sections</b>	for disposal see section 13.

## 7. Handling and storage

<b>Precautions for safe handling:</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the
---------------------------------------	---

formation of combustible dusts. Combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed in a dry and well-ventilated place. Handle and store under inert gas

**Storage class:**

Storage class (TRGS 510): 11: Combustible Solids

**Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. Exposure controls/personal protection**

**Control Parameters**

**Ingredients with work-Place control parameters**

Contains no substances with occupational exposure limit values.

**Exposure Controls**

**Appropriate engineering Controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Eye/face protection:**

Safety glasses with side-shields Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

**Skin Protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:**

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental Exposure:**

Do not let product enter drains.

**9. Physical and chemical properties**

**Appearance**

<b>Physical state:</b>	solid
<b>Odor:</b>	No data available
<b>Odor threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/ freezing point:</b>	Melting point/range: 143 - 147 °C (289 - 297 °F)
<b>Initial boiling point and boiling</b>	No data available
<b>Flash Point:</b>	> 110 °C (> 230 °F) - closed cup
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower Flammability or explosive limits</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Vapor density:</b>	21.6 - (Air = 1.0)
<b>Relative density:</b>	No data available
<b>Water Solubility</b>	No data available
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Explosive properties:</b>	No data available
<b>Oxidizing properties:</b>	No data available

**Other safety information:**

<b>Relative vapor density</b>	21.6 - (Air = 1.0)
-------------------------------	--------------------

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Material is stable under recommended condition.
<b>Possibility of Hazardous:</b>	No data available
<b>Conditions to Avoid:</b>	No data available
<b>Incompatible materials:</b>	Strong oxidizing agents
<b>Hazardous decomposition products:</b>	

**Other decomposition products** No data available

**Hazardous decomposition products formed under fire conditions.** Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen fluoride, Zinc/zinc oxides

In the event of fire: see section 5

## 11. Toxicological information

### Information on likely routes of exposure

**Acute toxicity:** No data available  
**Inhalation:** No data available  
**Dermal:** No data available  
**Skin corrosion/irritation:** No data available  
**Serious eye damage/eye irritation:** No data available  
**Respiratory of skin sensitization** No data available.

### Carcinogenicity

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.  
**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
**OSHA:** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity** No data available.

**Specific Target Organ Toxicity – Single Exposure Target** Inhalation - May cause respiratory irritation. **Specific**

**Specific Target Organ Toxicity – Repeated Exposure** No data available.

**Aspiration Hazard:** No data available.

**Additional Information:** RTECS: Not available

## 12. Ecological information

**Toxicity:** No data available.

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available.

<b>Mobility in Soil:</b>	No data available.
<b>Results of PBT and vPvB assessment:</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
<b>Other adverse Effects:</b>	No data available.

### 13. Disposal considerations

#### Waste treatment methods

<b>Product</b>	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
<b>Contaminated packaging</b>	Dispose of as unused product.

### 14. Transport information

<b>DOT</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

### 15. Regulatory information

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 311/312 Components

Acute Health Hazard

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US. Pennsylvania RTK-Hazardous Substances

No ingredient regulated by Right-to-Know Law present.

#### Pennsylvania Right To Know Components

Zinc di[bis(trifluoromethylsulfonyl)imide] CAS-No. 168106-25-0 Revision Date 2015-07-08

### 16. Other information, including date of preparation of last revision

<b>Issue Date:</b>	12/21/2022
<b>Revision Information:</b>	12/21/2022: New SDS



**Version #:** 1.0

**Disclaimer:**

**ALTHOUGH THE INFORMATION CONTAINED IN THIS DOCUMENT IS PRESENTED IN GOOD FAITH, BASED ON AVAILABLE INFORMATION BELIEVED TO BE RELIABLE AT THE TIME OF PREPARATION OF THIS DOCUMENT. ROCO MAKES NO WARRANTIES OR REPRESENTATIONS WITH RESPECT TO THE INFORMATION OR THE PRODUCT/MATERIALS DESCRIBED HEREIN, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES AND CONDITIONS (INCLUDING ALL WARRANTIES AND CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). NO FREEDOM FROM INFRINGEMENT OF ANY PATENT OWNED BY ROCO OR OTHERS IS TO BE INFERRED. THIS INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE CONTACT ROCO FOR THE MOST CURRENT VERSION OF THIS SDS.**