

# SAFETY DATA SHEET

## 1. Identification

**GHS Product identifier:** **ROCO-012**

**Other means of identification**  
**Common name(s):** Sodium trifluoromethanesulfonimide

**Synonym(s):** Sodium Tf<sub>2</sub>N, Sodium TFSI, NA, TFSI  
**SDS number:** ROCO-012

**CAS-No:** 91742-21-1

**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)

Skin Corrosion/Irritation Category (category 1 B)  
 Serious eye damage/Eye Irritation (Category 1)

#### GHS Label elements, including precautionary statements

##### Signal Word

Danger



##### Hazard Statement:

H314 Causes severe skin burns and eye damage.

##### Precautionary Statements

**H260** Do not breathe dust/fume/gas/mist/vapors/spray  
**H264** Wash face, hands and any exposed skin thoroughly after handling  
**H280** Wear protective gloves/protective clothing/eye protection/face protection  
**P301 + P330 + P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P303 + P361 + P353** IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
**P304 + P340** IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

**P310**

Immediately call a POISON CENTER/ doctor.

**P321**

Specific treatment (see supplemental first aid instructions on this label).

**P363**

Wash contaminated clothing before reuse.

**P405**

Store locked up.

**P501**

Dispose of contents/ container to an approved waste disposal plant.

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

### 3. Composition/information on ingredients

Substances Synonyms: Sodium trifluoromethylsulfonyl  
Formula: C<sub>2</sub>F<sub>6</sub>NNaO<sub>4</sub>S<sub>2</sub>  
Molecular weight: 303.14 g/mol  
CAS-No: 91742-21-1

Component	Classification	Concentration
Sodium bis(trifluoromethylsulfonyl)	Skin Corr. 1B; Eye Dam. 1 H314, H318	NA

### 4. First-aid measures

**General Advice**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Ingestion**

Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person

**Most important symptoms and effects**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

**Notes to Physician**

Treat symptomatically

### 5. Fire-fighting measures

**Extinguishing media:**

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam

**Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific Hazards Arising from the Chemical**

Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
Hydrogen fluoride  
Sodium oxides

**Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides. Hydrogen fluoride. Potassium oxides.

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (Approved or equivalent) and full protective gear. Thermal decomposition can lead to the release of irritating gases and vapors

**6. Accidental release measures**

**Personal precautions**

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing

**Environmental precautions**

Should not be released into the environment. Do not allow material to contaminate the ground water system

**Methods and materials for containment and cleaning up**

Sweep up and shovel into suitable containers for disposal. Avoid dust formation

**Reference to other sections**

for disposal see section 13.

**7. Handling and storage**

**Precautions for safe handling**

**Advice on safe handling**

Avoid formation of dust and aerosols.

**Advice on protection against fire and explosion**

Provide appropriate exhaust ventilation at places where dust is formed.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.  
For precautions see section 2.2.

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

**Storage conditions**

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

**Storage class**

Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials

**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).

**9. Physical and chemical properties**

**Appearance**

**Physical state:**

solid

**Odor:**

No data available

**Odor threshold:**

No data available

**pH:**

No data available

**Melting point/freezing point:**

Melting point/range: 257.1 – 258.4 °C (494.8 – 497.1 °F)

**Initial boiling points**

No data available

**Flash Point:**

Not Applicable

**Evaporation rate:**

No data available

**Flammability (solid, gas):**

Not Applicable

<b>Upper/lower Flammability or explosive limits</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Solubility:</b>	Not Applicable
<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

## 10. Stability and reactivity

<b>Reactive Hazard</b>	None known, based on the information available.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid</b>	Incompatible Products. Incompatible Materials Strong oxidizing agents
<b>Incompatible materials</b>	Strong oxidizing agents, Strong bases 10.6
<b>Hazardous decomposition products</b>	In the event of fire: see section 5

## 11. Toxicological information

### Information on likely routes of exposure

#### Acute toxicity

<b>Oral:</b>	No data available
<b>Inhalation:</b>	No data available
<b>Dermal:</b>	No data available
<b>Skin corrosion/irritation:</b>	No data available
<b>Serious eye damage/eye irritation:</b>	No data available
<b>Respiratory of skin sensitization</b>	No data available.

#### Carcinogenicity

<b>IARC:</b>	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.
<b>NTP:</b>	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.
<b>OSHA:</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

<b>Reproductive toxicity</b>	No data available.
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**Specific Target Organ Toxicity  
Single Exposure**

Inhalation - May cause respiratory irritation.

**Specific Target**

**Specific Target Organ Toxicity  
Repeated Exposure**

No data available.

**Aspiration Hazard:**

No data available.

**Additional Information:**

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. Ecological information

<b>Toxicity</b>	No information available
<b>Persistence and Degradability</b>	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available.
<b>Mobility in soil</b>	No information available
<b>Results of PBT and vPvB assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
<b>Endocrine disrupting properties</b>	No data available
<b>Other adverse effects</b>	No data available

## 13. Disposal considerations

**Waste treatment methods**

**Product** Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate.

**Contaminated packaging** Dispose of as unused product.

## 14. Transport information

<b>DOT</b>	
<b>UN-No</b>	U3261
<b>Proper Shipping Name</b>	Corrosive solid, n.o.s.
<b>Technical Name</b>	(Potassium bis(trifluoromethylsulfonyl)imide)
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>IATA</b>	
<b>UN-No</b>	UN3261
<b>Proper Shipping Name</b>	CORROSIVE SOLID, N.O.S.*
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>IMDG/IMO</b>	
<b>UN-No</b>	UN3261

<b>Proper Shipping Name</b>	CORROSIVE SOLID, N.O.S.*
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

**15. Regulatory information**

<b>SARA 302</b>	Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 311/312 Components</b>	Acute Health Hazard
<b>SARA 313 Components</b>	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
<b>CWA (Clean Water Act)</b>	Not applicable
<b>Clean Air Act</b>	Not applicable
<b>OSHA - Occupational Safety and Health Administration</b>	Not applicable
<b>CERCLA</b>	Not applicable
<b>California Proposition 65</b>	This product does not contain any Proposition 65 chemicals
<b>U.S. State Right-to-Know Regulations</b>	Sodium trifluoromethylsulfonylimide CAS-No. 91742-21-1
<b>Pennsylvania Right to Know Components</b>	Sodium trifluoromethylsulfonylimide CAS-No. 91742-21-1

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

<b>Issue Date:</b>	05/04/2022
<b>Revision Information:</b>	05/04/2023: New SDS
<b>Version #:</b>	1.0

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