

# SAFETY DATA SHEET

## 1. Identification

**GHS Product identifier:** **ROCO-011**

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

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

**SDS number:** **ROCO-011**

**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:**

Causes severe skin burns and eye damage.

May cause respiratory irritation.

**Precautionary Statements**

**Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area

**Response**

Immediately call a POISON CENTER or doctor/physician

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Storage Store locked up Store in a well-ventilated place. Keep container tightly closed

**Disposal**

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**

Synonyms: Potassium bis(trifluoromethanesulfonyl)imide  
 Formula: C2F6KNO4S2  
 Molecular weight: 319.24 g/mol

Component	CAS #	Weight
Potassium bis(trifluoromethylsulfonyl)	90076-67-8	<= 100 %

**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** Cause burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

**Notes to Physician** Treat symptomatically

## 5. Fire-fighting measures

**Extinguishing media:** CO 2, dry chemical, dry sand, alcohol-resistant foam

**Unsuitable extinguishing media:** No data available  
**Flash Point** No data available  
**Method** No data available

**Autoignition Temperature** No data available

**Explosion Limits**

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No data available

**Sensitivity to Static Discharge** No data available

### Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes.

### Hazardous Combustion Products

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

### 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 release of irritating gases and vapors

### NFPA

Health 3	Flammability 1	Instability 0	Physical hazards -
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## 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 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

**Handling:**

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance

**Storage:**

Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place

## 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

<b>pH:</b>	No data available
<b>Melting point/ freezing point:</b>	Melting point/range: 198 - 203 °C (388.4 – 397.4 °F)
<b>Initial boiling point and boiling</b>	No data available
<b>Flash Point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	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 information available
<b>Stability</b>	Moisture sensitive.
<b>Conditions to Avoid</b>	Incompatible products. Incompatible Materials Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Sulfur oxides, Hydrogen fluoride, Potassium oxides
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing

## 11. Toxicological information

### Information on likely routes of exposure

<b>Acute toxicity:</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

**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** Inhalation - May cause respiratory irritation.

**Specific Target**

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

**Aspiration Hazard:** No data available.

**Additional Information:** RTECS: Not available

**12. Ecological information**

**Ecotoxicity**

Do not empty into drains.

**Persistence and Degradability** No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information

**13. Disposal considerations**

**Waste treatment methods**

**Product** Chemical waste generators must determine whether a discarded chemical is classified as a 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**

**DOT**

<b>UN-No</b>	UN1759
<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

**TDG**

<b>UN-No</b>	UN1759
<b>Proper Shipping Name</b>	CORROSIVE SOLID, N.O.S.*
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>IATA</b>	
<b>UN-No</b>	UN1759
<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>	UN1759
<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 311/312 Components</b>	See section 2 for more info
<b>SARA 313 Components</b>	Not applicable
<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>	Not applicable
<b>Pennsylvania Right-to-Know Components</b>	
Potassium bis(trifluoromethylsulfonyl)imide	CAS-No. 90076-67-8

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

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

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**End of SDS**