

Ethionamide Sulfoxide: sc-211430



The Power to Question

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ethionamide Sulfoxide
Product Number: sc-211430
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. HAZARDS IDENTIFICATION

WHMIS Classification (Canada)

D1B Toxic Material Causing Immediate and Serious Toxic Effects
Toxic by Ingestion
D2A Very Toxic Material Causing Other Toxic Effects
Reproductive Toxin/Teratogen

WHMIS Symbols (Canada)



Classification of the Substance or Mixture and Label Elements

GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Acute Toxicity, Oral (Category 4)

Reproductive Toxicity (Category 2)

EU Classification (According to EU Regulation 67/548/EEC)

Harmful if swallowed. Possible risk of harm to the unborn child. Possible risk of impaired fertility.

EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements

Harmful

Hazard Codes

Xn



Risk Codes and Phrases

R22 Harmful if swallowed.
R63 Possible risk of harm to the unborn child.
R62 Possible risk of impaired fertility.

Safety Precaution Codes and Phrases

S46 If swallowed, seek medical advice immediately and show this container or label.
S53 Avoid exposure - obtain special instruction before use.

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word Warning



GHS Hazard Statements

H302 Harmful if swallowed.
H361 Suspected of damaging fertility or the unborn child.

GHS Precautionary Statements

P201 Obtain special instructions before use.
P281 Use personal protective equipment as required
P301/P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Formula: C₈H₁₀N₂O₂
Molecular Weight: 182.24
CAS Registry #: 536-28-7
Synonyms: 2-Ethyl-4-pyridinecarbothioamide S-Oxide;
2-Ethylthioisonicotinamide S-Oxide;
Ethionamide-S-oxide

4. FIRST AID MEASURES

Description of First Aid Measures

General Advice

If medical attention is required, show this safety data sheet to the doctor.

If Inhaled

If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.

In Case of Skin Contact

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

In Case of Eye Contact

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

No data available

Indication of any Immediate Medical Attention and Special Treatment Needed

No data available

5. FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

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

Special Hazards Arising from the Substance or Mixture

Carbon oxides, Nitrogen oxides, Sulfur oxides

Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further Information

No data available

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists. Adequate ventilation must be provided to ensure dusts or mists are not inhaled.

Environmental Precautions

Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

Methods and Materials for Containment and Cleaning Up

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).

Reference to Other Sections

For protective equipment, refer to Section 8. For disposal, see Section 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of dusts and mists. Normal measures for preventative fire protection. No smoking, eating or drinking around this material. Wash hands after use.

Conditions for Safe Storage, Including any Incompatibilities

Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10). Store at -20 °C under inert atmosphere. Light sensitive.

Specific End Uses

For scientific research and development only. Not for use in humans or animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Contains no components with established occupational exposure values.

Exposure Controls

Appropriate Engineering Controls

A laboratory fume hood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

Personal Protective Equipment

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

Eye/Face Protection

Safety glasses or safety goggles. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

Skin Protection

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin.

Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements. Gloves used for incidental exposures (splash protection) should be designated as “low chemical resistant” or “waterproof” by EU standard EN 374. Unrated gloves are not recommended. Suggested gloves: nitrile gloves style 92-500 or 92-600, 5 mil thickness. Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated “chemical resistant” as per EN 734 with the resistance codes corresponding to the anticipated use of the material. Suggested gloves: Viton/Butyl gloves style 38-612, 4/8 mil thickness. Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

Body Protection

Fire resistant lab coat or coveralls.

Respiratory Protection

Recommended respirators are NIOSH-approved N95 or CEN-approved FFP2 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	Yellow Solid	pH	N/A
Melting Point/Freezing Point	138-140 °C	Flash point	N/A
Evaporation Rate	N/A	Flammability (Solid/Gas)	N/A
Vapor Pressure	N/A	Vapor Density	N/A
Solubility	DMSO, Methanol	Relative Density	N/A

Auto-Ignition Temperature N/A
Viscosity N/A
Oxidizing Properties N/A

Decomposition Temperature N/A
Explosive Properties N/A
Partition Coefficient: N/A
n-octanol/water

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical Stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

Light

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products

No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

No data available

Skin Corrosion/Irritation

No data available

Serious Eye Damage/Irritation

No data available

Respiratory or Skin Sensitization

No data available

Germ Cell Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive Toxicity/Teratogenicity

Laboratory results on structurally similar molecules have shown reproductive toxicity/teratogenicity in animal models.

Single Target Organ Toxicity - Single Exposure

No data available

Single Target Organ Toxicity - Repeated Exposure

No data available

Aspiration Hazard

No data available

Potential Health Effects and Routes of Exposure

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Harmful if swallowed
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

Additional Information

RTECS: Not listed

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Bioaccumulative potential

no data available

PBT and vPvB assessment

no data available

Persistence and degradability

no data available

Mobility in soil

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

Contaminated Packaging

Dispose of as above.

Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada

DSL/NDSL Status: This product is not listed on the Canadian DSL/NDSL.

United States

TSCA Status: This product is not listed on the US EPA TSCA.

European Union

ECHA Status: This product is not registered with the EU ECHA.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

01/14/2013