Matrix Scientific

PO BOX 25067

COLUMBIA, SC 29224-5067

Telephone: 803-788-9494 Fax: 803-788-9419

SAFETY DATA SHEET

Transportation Emergency: 3E Co. (5025) 800-451-8346

1. Product Identification

Name Diethylaminosulfur trifluoride

Catalog Number 004186
CAS Registry Number [38078-09-0]
Company Matrix Scientific

Physical Address 131 Pontiac Business Center Drive

Elgin, SC 29045

USA

Telephone/Fax (803)788-9494/(803)788-9419

2. Hazard Identification

Hazardous Ingredients Diethylaminosulfur trifluoride

GHS label elements, including precautionary statements

Pictogram

Signal word DANGER

Hazard statement(s)

H301 Toxic if swallowed

H226 Flammable liquid and vapour

H302+H312+H332 Flammable liquid and vapour. Harmful in contact with skin

Harmful if inhaled

H314 Causes severe skin burns and eye damage

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources

No smoking.

P233 Keep container tightly closed.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

P304+P340 IF INHALED: IF INHALED: Remove person to fresh air and keep 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.

P411 Store at temperatures not exceeding 0°C

P501 Dispose of contents/container to ... [... in accordance with

local/regional/national/international regulation (to be specified)].

3. Composition, Infomation or Ingredients

Diethylaminosulfur trifluoride

Synonym DAST

4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with

clean, running water for at least 15 minutes while keeping eyes open. Cool

water may be used. Seek medical attention.

Skin Contact: After contact with skin, wash with generous quantities of running water.

Gently and thoroughly wash affected area with running water and non-abrasive soap. Cool water may be used Seek medical attention. Wash any

contaminated clothing prior to reusing.

Inhalation: Remove the victim from the source of exposure to fresh, uncontaminated

air. If victim's breathing is difficult, administer oxygen. Seek medical

attention.

Ingestion: Do NOT induce vomiting. Wash mouth out with large amounts of water for

at least 15 minutes. Seek medical attention.

5. Fire-Fighting Measures

Extinguishing media:

Special fire fighting

procedures:

procedures.

Carbon dioxide, dry chemical powder. **Do Not Use Water**

Wear self-contained breathing apparatus and protective clothing to prevent

contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of

product: Emits toxic fumes under fire conditions.

6. Accidental Release Measures

Immediately evacute area. Decontamination team should wear protective clothing and breathing appartus. Spilled material should be cleaned up immediately by mixing with sand or a similar inert absorbant solid. CAUTION This material is extremely moisture sensitive and reacts violently with water with the evolution of corrosive

gases. Sweep up and store in a tightly closed container for disposal. Avoid contact. There have been reports of violent decomposition when this material is heated above 65°

7. Handling and Storage

Store in Freezer

Avoid prolonged exposure

Do not breath dust or vapor.

Have safety shower and eye wash available.

Do not get in eyes, on skin or on clothing.

Keep container tightly closed.

Storage area should be cold (-12 to -18°C)

Store in plastic containers (not glass).

Do Not Heat above 60°C

Ensure adequate ventilation during use.

Use only in a chemical fume hood.

This material should be handled only by, or under the close supervision of properly qualified people.

This product is provided solely for the purpose of research and development

8. Exposure Controls and Personal Protection

Wear Protective safety goggles.

Wear chemical-resistant gloves.

Wear protective clothing and chemical resistant boots.

Ensure ventilation during use.

After contact with skin, wash immediately.

9. Physical and Chemical Properties

Molecular Formula: C4H10F3NS
Molecular Weight: 161.19
Boiling point (C): 30-32°/3mm
Density (g/ml): 1.220

10. Stability and Reactivity

Incompatibilities: Strong oxidizing agents

Strong acids and bases

Water

May decompose violently on exposure to moist air or

water. Avoid heat, flames and sparks. There are literature reports of this material undergoing explosive decomposition when heated above 65°C

Hazard Decomposition Products

Carbon carbon monoxide

carbon dioxide

Fluorine hydrogen fluoride
Nitrogen oxides of nitrogen
Sulfur oxides of sulfur

11. Toxicological Information

To the best of our knowledge the toxicological properties of this product have not been thouroughly investigated. This material reacts with moisture forming corrosive by-products-Risk of internal burns. May cause severe burns in contact with skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumontis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

12. Ecological Information

Mobility: Data not known

Persistence and

degradability:No data availableCumulative potential:No data availableOther adverse effects:No data available

13. <u>Disposal Considerations</u>

Observe all federal, state and local laws.

14. <u>Transport Information</u>

Shipping Name Corrosive liquid, flammable, n.o.s.

Class / Sub-Class 8 / 3 UN Number UN2920

Packing Group Inhalation Hazard Zone

15. Regulatory Information

Adhere to all Federal, State and local regulations.

16. Other Information

The information contained herein is accurate to the best of our knowledge, but is not meant to be complete and is included only as a guide. the end user is responsible for any damage resulting from handling or from contact with this product.