

Matrix Scientific

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SAFETY DATA SHEET

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

1. Product Identification

Name	Tetrafluorosuccinic anhydride
Synonym	Perfluorosuccinic anhydride
Catalog Number	006155
CAS Registry Number	[699-30-9]
Company	Matrix Scientific
Physical Address	131 Pontiac Business Center Drive Elgin, SC 29045 USA
Telephone/Fax	(803)788-9494/(803)788-9419

2. Composition, Information or Ingredients

Hazardous Ingredients Tetrafluorosuccinic anhydride

GHS label elements, including precautionary statements

Signal word DANGER

Pictogram



Hazard statement(s)

H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other
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	ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+340	IF INHALED: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P402+404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/container to ... [... in accordance with local/regional/national/international regulation (to be specified)].

3. Hazard Identification_____

Toxic by inhalation Irritant

Avoid prolonged exposure.

Do not breathe vapor.

Irritating to eyes, respiratory system and skin.

Use caution when handling.

Exposure to any chemical should be limited.

To the best of our knowledge, the health hazards of this product have not been fully investigated.

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

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. Cover the affected area with emollient. 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. Give water to victim to drink. Seek medical attention. Note to physician: Treat symptomatically and supportatively.

5. Fire-Fighting Measures

Extinguishing media: Carbon dioxide, dry chemical powder, alcohol or polymer foam, water spray.

Special fire fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of product: This product will not burn, but may emit toxic fumes under fire conditions.

6. Accidental Release Measures

Steps to be taken if material is spilled or otherwise released into the environment - Wear Appropriate respirator, impervious boots and heavy rubber (or otherwise impervious) gloves. Scoop up solid material or absorb liquid material and place into appropriate container. Ventilate area and wash affected spill area after pickup is complete. Wash skin immediately with plenty of water. Place solid or absorbed material into containers and close for disposal.

7. Handling and Storage

Moisture Sensitive

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.
Store in a cool, dry, well-ventilated place.
Ensure adequate ventilation during use.
Use only in a chemical fume hood.

8. Exposure Controls and Personal Protection

Wear Protective safety goggles with a face shield.
Wear chemical-resistant gloves.
Wear protective clothing and chemical resistant boots.
Wear a NIOSH/MSHA-approved (or equivalent) respirator.
Ensure ventilation during use.
After contact with skin, wash immediately.

9. Physical and Chemical Properties

Appearance and Odor: Colorless liquid
Molecular Formula: C₄F₄O₃
Molecular Weight: 172.04
Boiling point (C): 54-55°
Flash point: None
Density (g/ml): 1.6209

Index of refraction: 1.3240

10. Stability and Reactivity

Incompatibilities: Strong oxidizing agents
Strong acids and bases
Alcohol, alkalies, water
May decompose on exposure to moist air or water.

Hazard Decomposition Products

Carbon carbon monoxide
carbon dioxide
Fluorine hydrogen fluoride

11. Toxicological Information

Acute effects:

Irritant

May be fatal if inhaled. Inhalation of small concentrations stops breathing almost instantaneously.

May be harmful by ingestion or skin absorption.

Material is irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the toxicological properties of this product have not been fully investigated or determined.

12. Ecological Information

Mobility: Data not known
Persistence and degradability: No data available
Cumulative potential: No data available
Other adverse effects: No data available

13. Disposal Considerations

Absent other actions demanded by federal or local regulations - Dissolve or mix the material with a combustible solvent and burn in a regulated, chemical incinerator equipped with after burner and scrubber. Incinerate at 1200°C with a 2 second dwell time or at 1600°C with a 1.5 second dwell time.

Observe all federal, state and local laws.

14. Transport Information

Shipping Name Toxic by Inhalation liquid, corrosive, n.o.s.
Class / Sub-Class 6.1
UN Number UN3389
Packing Group I
Sub. Risk 8
Inhalation Hazard Zone A
Labels 6.1, 8 & marine pollutant
IATA/ICAO forbidden

15. Regulatory Information

Included on TSCA inventory

EC number (EINECS): 211-832-0

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.