

Matrix Scientific

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SAFETY DATA SHEET

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

1. Product Identification

Name	Hydrogen fluoride-pyridine (70% HF)
Synonym	Olah's Reagent
Catalog Number	003543
CAS Registry Number	[32001-55-1] (mixture) Hydrogen fluoride [7664-39-3] Pyridine [110-86-1]
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	Hydrogen fluoride-pyridine (70% HF)
	Hydrogen fluoride 70%
	Pyridine 30%

GHS label elements, including precautionary statements

Pictogram



Signal word

DANGER

Hazard statement(s)

H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/ gas/mist/vapours/spray.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P402+P404	Store in a dry place. Store in a closed container.
P411+P235	Store at temperatures not exceeding 8°C . Keep cool.
P501	Dispose of contents/container to ... [...] in accordance with local/regional/national/international regulation (to be specified)].

3. Hazard Identification

Corrosive

Highly Toxic

Moisture Sensitive

Highly toxic by inhalation, ingestion and skin absorption. Carcinogen

Avoid prolonged exposure.

Do Not breathe vapor.

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

Show this safety data sheet to the doctor in attendance

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. If not breathing, give artificial respiration. Seek medical attention.
Ingestion:	If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. Fire-Fighting Measures

Extinguishing media: Carbon dioxide, dry chemical powder, alcohol- resistant 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/

Emits toxic fumes under fire conditions.

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.

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.

Mechanical exhaust required. Safety shower and eye bath.
Wear full-face, NIOSH (USA) approved respirator.
Wear chemical-resistant gloves.
Wear protective clothing and chemical resistant boots.
Ensure ventilation during use.
After contact with skin, wash immediately.
Exposure limits:

Hydrogen fluoride -	OSHA STEL	6 ppm
	OSHA TWA	2.5 mg/m3
Pyridine -	OSHA TWA	5 ppm; 15 mg/m3

Appearance:	Liquid
Molecular Formula:	C5H6FN
Molecular Weight:	99.11
Density:	1.140 g/cm3

Incompatibilities: Strong oxidizing agents, metals
Reacts violently with water
Strong acids and bases

Carbon	carbon monoxide
	carbon dioxide
Fluorine	hydrogen fluoride

11. Toxicological Information

Acute effects:

Irritant, harmful

May be fatal by ingestion and inhalation.

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.

Observe all federal, state and local laws.

14. Transport Information

Shipping Name Hydrofluoric acid, more than 60% strength

Class / Sub-Class 8 / 6.1

UN Number UN1790

Packing Group I

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.