

HYDROFLUOSILICIC ACID 23-25%
89032

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone number	1-800-ASHLAND (1-800-274-5263)

Product name	HYDROFLUOSILICIC ACID 23-25%
Product code	89032
Product Use Description	No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, light yellow

DANGER! Corrosive to skin, Severe eye irritant.

Potential Health Effects

Routes of exposure

Inhalation, Skin absorption, Skin contact

Eye contact

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

Skin contact

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage.

Ingestion

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation

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Breathing of vapor or mist is possible.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways)

Target Organs

No data

Carcinogenicity

No data

Reproductive hazard.

No data

Other information

No data

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
HYDROGEN HEXAFLUOROSILICATE(2-)	16961-83-4	>=20-<30%

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Immediately flush contaminated skin with large quantities of cool running water for 5 minutes. Remove contaminated clothing while flushing contaminated skin. Immediately after washing, apply 2.5% calcium gluconate gel to all affected skin areas. (Note: If gel is not prepared within 5 minutes, continue flushing until gel is prepared.)

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The gel should be massaged into the affected skin by personnel wearing gloves to prevent skin contamination during first aid. Gel should be applied every 15 minutes and massaged continuously. Instead of calcium gluconate treatment, the affected areas may be soaked in iced 0.13% benzalkonium chloride solution (Zephiran chloride). Use ice cubes rather than shaved ice to prevent frostbite. If it is not practical to immerse affected area, towels should be soaked with iced 0.13% benzalkonium chloride solution and used as compresses for the burned area. Compresses should be changed every 2-3 minutes and continued until pain is relieved or victim is seen by a physician. If neither calcium gluconate nor benzalkonium chloride is available, use an iced saturated water solution of magnesium sulfate (Epsom salts), or if that is not available, iced 70% alcohol or ice water. Local anesthetics should be avoided since relief of pain indicates success of the treatment. ***Get medical attention as soon as possible.*** ::::NOTE::::Calcium gluconate gel can be prepared by mixing a 10 milliliter ampule of calcium gluconate with a 2-ounce tube of K-Y jelly (Johnson & Johnson). After a jar of this mixture has been opened and used, it should be discarded to prevent bacterial or chemical contamination.

Ingestion

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to physician

Hazards: No information available.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water mist, carbon dioxide (CO₂), dry chemical

Hazardous combustion products

May form: acid vapors

Precautions for fire-fighting

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Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

No data

Environmental precautions

No data

Methods for cleaning up

Persons not wearing protective equipment should be excluded from area of spill until clean-up is completed. Stop spill at source. Dike to prevent spreading. Pump to salvage tank.

7. HANDLING AND STORAGE

Handling

No data

Storage

No data

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

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Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Eye protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

Skin and body protection

To prevent skin contact, wear impervious clothing and boots. Wear resistant gloves such as:
polyvinyl chloride

Respiratory protection

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	light yellow
Odour	No data
Boiling point/range	222.5 °F / 105.8 °C @ 760 mmHg
pH	No data
Flash point	No data
Evaporation rate	1 Ethyl Ether
Explosion limits	No data
Vapour pressure	17.5000 mmHg @ 68.00 °F / 20.00 °C
Vapour density	No data
Density	1.215 g/cm ³ @ 64.00 °F / 17.78 °C 10.13 lb/gal @ 64.00 °F / 17.78 °C
Solubility	No data
Partition coefficient (n-octanol/water)	No data
Autoignition temperature	No data

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10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

None known.

Incompatible products

Avoid contact with:, organic materials, reactive metals such as aluminum and magnesium, strong alkalis

Hazardous decomposition products

May form:, acid vapors

Hazardous reactions

Product will not undergo hazardous polymerization., Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acute inhalation toxicity

Acute dermal toxicity

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

No data

Acute Toxicity to Aquatic Invertebrates

No data

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Environmental fate and pathways

No data

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Collect and add slowly to large volume of agitated solution of soda ash and slaked lime. Add neutralized solution to excess running water in accordance with applicable regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

IMDG:

UN1778, FLUROSILICIC ACID 8, II

IATA_P:

UN1778, Fluorosilicic acid 8, II

IATA_C:

UN1778, Fluorosilicic acid 8, II

CFR_ROAD:

UN1778, Fluorosilicic acid 8, II

CFR_RAIL:

UN1778, Fluorosilicic acid 8, II

CFR_INWTR:

UN1778, Fluorosilicic acid 8, II

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

SARA Hazard Classification Acute Health Hazard

SARA 313 Component(s)

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OSHA Hazards Corrosive to skin
Severe eye irritant

	Health	Flammability	Reactivity	Other
HMIS				No data
NFPA				No data

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).