

GFS CHEMICALS, INC.
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MATERIAL SAFETY DATA SHEET

2070

FLUORIDE STANDARD SOLUTION

CHEMICAL NAME & SYNONYMS

Fluoride Standard Solution, 1,000 ppm F

DOT CLASS

NR

SARA TITLE 313

No

TSCA listed - Yes

FORMULA

NaF > 0.3%

H₂O <99.7%

REPORTABLE QUANTITY

454 kg

N/A

F.W.

41.99

18.02

CAS#

7681-49-4

7732-18-5

PHYSICAL DATA

Density 1.0; Will etch glass; Completely miscible with water.

APPEARANCE & ODOR

Clear, colorless liquid. May have odor of hydrofluoric acid (don't sniff).

REACTIVITY & CONDITIONS TO AVOID

Emits very toxic fumes when heated to decomposition. Avoid all contact with skin, eyes and internally.

FIRE HAZARDS

Decomposes in fire to yield toxic fumes. Firefighters wear SCBA and full protective gear.

EXTINGUISHER

Fight surrounding fire.

FLASHPOINT

N/A

LEL

N/A

UEL

N/A

HEALTH HAZARDS

May be corrosive and irritating to skin and eyes. Irritation effects may be delayed. Poisonous internally; LD₅₀ (oral-rat) 52 mg (NaF)/kg. Internal effects: nausea, vomiting, abdominal pain, human lethal dose 5-10 grams of sodium fluoride. OSHA PEL/ACGIH TLV: TWA 2.5 mg (F)/m³. No evidence of carcinogenicity.

SPECIAL PRECAUTIONS

Use only in a good hood. Wear protective goggles or face shield. Use rubber or vinyl gloves. Avoid all physical contact with liquid or fumes.

FIRST AID

Wash contact area thoroughly with water. Apply calcium gluconate salve liberally to contact area. Observe contact area for delayed effects. See a physician. For eyes, wash thoroughly with water and get immediate medical attention. If swallowed, give milk and calcium-based antacid such as Tums. Get immediate medical attention.

SPILLS & LEAKS

Neutralize spill with lime and wash up thoroughly with water. Disposal to landfill. Very small quantities of neutralized waste to sanitary drain.

CATALOG #

2070

PREPARED BY

MDM

DATE

January 14, 2005