GFS CHEMICALS, INC.

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MATERIAL SAFETY DATA SHEET

2070

FLUORIDE STANDARD SOLUTION

CHEMICAL NAME & SYNONYMS	DOT CLASS	SARA TITLE 313
Fluoride Standard Solution, 1,000 ppm F	NR	No
	TSCA listed - Yes	

FORMULA	REPORTABLE QUANTITY	F.W.	CAS#
NaF > 0.3%	454 kg	41.99	7681-49-4
H_2O <99.7%	N/A	18.02	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	FLASHPOINT	LEL	UEL
Fight surrounding fire.	N/A	N/A	N/A

HEALTH HAZARDS
May be corrosive and irritating to skin and eyes. Irritation effects may be delayed. Poisonous internally; LD_{50} (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)/m^3. 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 #	PREPARED BY	DATE
2070	MDM	January 14, 2005