

GFS CHEMICALS, INC.

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MATERIAL SAFETY DATA SHEET

5011

AMMONIUM TETRAFLUOROBORATE

CHEMICAL NAME & SYNONYMS

Ammonium Tetrafluoroborate, Ammonium Fluoborate

DOT CLASS

8/II

SARA TITLE 313

No

TSCA listed - Yes

FORMULA

NH₄BF₄

REPORTABLE QUANTITY

2270 kg

F.W.

104.87

CAS#

13826-83-0

PHYSICAL DATA

Density 1.87. Soluble in water. Sublimes @ 238EC.

APPEARANCE & ODOR

White crystals. Odorless.

REACTIVITY & CONDITIONS TO AVOID

Stable. Contact with strong alkali will cause decomposition yielding fumes of ammonia. Contact with strong mineral acids may cause decomposition yielding fumes of fluoboric acid. Heating to decomposition will yield toxic fumes of fluoride and NOx. May react with glass causing etching.

FIRE HAZARDS

Ammonia, hydrogen fluoride may be emitted in a fire. Firefighters wear SCBA.

EXTINGUISHER

Fight surrounding fire.

FLASHPOINT

N/A

LEL

N/A

UEL

N/A

HEALTH HAZARDS

Irritating to eyes, skin and mucous membranes. Toxic internally. The chemical, physical and toxicological properties of this material have not been thoroughly investigated. LD/TD no data. OSHA PEL/ACGIH TLV: TWA 2.5 mg(F)/m³. Not known to be carcinogenic.

SPECIAL PRECAUTIONS

Wear goggles and rubber gloves when handling. Use good laboratory practices. If dust is raised use suitable dust mask or respirator. Avoid all contact.

FIRST AID

Wash contact area thoroughly with water. Use calcium gluconate salve on contact area or calcium gluconate solution injections as needed. See a physician. Inhalation - remove to fresh air; if symptoms persist consult a physician. Eyes - wash with water for 15 minutes and get immediate medical attention. Ingestion - give 3-4 glasses of water and induce vomiting. Consult physician.

SPILLS & LEAKS

Sweep up as much as possible and collect for reclamation or proper disposal. Wash spill area very well with water.

CATALOG #

5011

PREPARED BY

MDM

DATE

July 25, 2000