

GFS CHEMICALS, INC.

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MATERIAL SAFETY DATA SHEET

841

AMMONIUM FLUORIDE

CHEMICAL NAME & SYNONYMS

Ammonium Fluoride

DOT CLASS

6.1/III

SARA TITLE 313

No

TSCA listed - Yes

FORMULA

NH₄F

REPORTABLE QUANTITY

45.4 kg

F.W.

37.04

CAS#

12125-01-8

PHYSICAL DATA

Density 1.01; Soluble in water 100 g/100 ml at 0 C.

APPEARANCE & ODOR

White crystals. May have sharp odor.

REACTIVITY & CONDITIONS TO AVOID

Stable under ordinary conditions. Decomposes with heat or hot water to Ammonia and Hydrofluoric Acid.

FIRE HAZARDS

Decomposes with heat into toxic gases. Use water spray to cool containers. Firefighters wear SCBA and full protective gear. NFPA # 3-0-0.

EXTINGUISHER

Fight surrounding fire.

FLASHPOINT

N/A

LEL

N/A

UEL

N/A

HEALTH HAZARDS

Irritating to skin, eyes and mucous membranes, which may not be immediately evident. Harmful or fatal if swallowed, inhaled or absorbed through the skin. Internal effects: nausea, vomiting, abdominal pain, human lethal dose 5-10 grams. OSHA PEL/ACGIH TLV: TWA 2.5 mg (F)/m³. Chronic effects include mottling of teeth, bone damage and fluorosis. Has been investigated as teratogen, mutagen and for reproductive effects. IARC Group 4/ACGIH Group A4 - not classifiable as a human carcinogen.

SPECIAL PRECAUTIONS

Use with good ventilation. Must use protective eyewear and rubber gloves and protective clothing while handling.

FIRST AID

Wash contact area thoroughly with water. Use calcium gluconate salve on contact area. If eye contact-wash with water and get immediate medical attention. If swallowed, give milk or water, give calcium-rich antacid and get medical attention.

SPILLS & LEAKS

Contain spill. Wash up with water. Treat solution with calcium oxide and separate solids. Disposal to hazardous waste. Small amounts to sanitary sewer.

CATALOG #

841

PREPARED BY

MDM

DATE

September 24, 2004