GFS CHEMICALS, INC.
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1-800-424-9300(Chemtrec 24Hr. Info.)

MATERIAL SAFETY DATA SHEET

737

ALUMINUM STANDARD SOLUTION

CHEMICAL NAME & SYNONYMS	DOT CLASS	SARA TITLE 313
Aluminum Standard Solution, 1,000 ppm	8/III	Yes - HCl
	TSCA listed - Yes	

FORMULA		REPORTABLE QUANTITY	F.W.	CAS#
$AlCl_3$	<0.5%	N/A	133.34	7446-70-0
HCl	< 5%	454 kg	36.46	7647-01-0
H_2O	> 90%	N/A	18.02	7732-18-5

PHYSICAL DATA
Density 1.03; Boiling point 100°C; Completely miscible with water; >99% volatile.

APPEARANCE & ODOR
Clear colorless liquid. Slight odor of hydrochloric acid may be noticed.

REACTIVITY & CONDITIONS TO AVOID
Stable. No hazardous self-reactivity. Dilute acid, weakly corrosive.

FIRE HAZARDS
Not flammable. Reacts with metals to form flammable hydrogen gas. Releases corrosive gas when heated. Firefighters wear SCBA. NFPA # 2-0-0.

EXTINGUISHER	FLASHPOINT	LEL	UEL
Fight surrounding fire.	N/A	N/A	N/A

HEALTH HAZARDS
Corrosive and irritating to skin, eyes, mucous membranes. Swallowing will cause burns to mouth, throat, and stomach. Causes permanent eye damage. Harmful if swallowed. LC_{50} (Inh-rat) 3124 ppm (HCl - 1 hour); LD_{50} (oral-rat) 900 mg HCl/kg. OSHA PEL: 5 ppm HCl (ceiling); ACGIH TLV: 2 ppm HCl (ceiling). No evidence of carcinogenicity.

SPECIAL PRECAUTIONS
Wear goggles and rubber gloves while handling. Use only in proper hood or with suitable respirator to avoid inhalation of fumes. Eye wash and emergency drench shower required in work area.

FIRST AID
Wash contact area thoroughly with water. If eye irritation persists, see a physician. If swallowed, give water or milk, DO NOT induce vomiting. Call a physician.

SPILLS & LEAKS
Contain spill. Take up with absorbent such as sand with soda ash to neutralize. Flush neutralized spill to sewer with plenty of water. Check local regulations.

CATALOG #	PREPARED BY	DATE
737	MDM	December 7, 2006

Full Warranty and Limitations Statement should be reviewed at www.gfschemicals.com/terms.asp.