

GFS CHEMICALS, INC.
P.O. Box 245 Powell, OH 43065
740-881-5501(Tel.) 740-881-5989(Fax)
1-800-424-9300(Chemtrec 24Hr. Info.)

MATERIAL SAFETY DATA SHEET

544

IRON STANDARD SOLUTION

CHEMICAL NAME & SYNONYMS

Iron Standard Solution, 10 ppm

DOT CLASS

NR

SARA TITLE 313

Yes - HCl

TSCA listed - Yes

FORMULA

FeCl₃•6H₂O < 0.1%
HCl < 1%
H₂O > 99%

REPORTABLE QUANTITY

454 kg
2270 kg
N/A

F.W.

270.30
36.46
18.02

CAS#

10025-77-1
7647-01-0
7732-18-5

PHYSICAL DATA

Boiling point about 100°C; Specific gravity about 1.0; Completely miscible with water; >99% volatile.

APPEARANCE & ODOR

Clear liquid. Odorless. May have light yellow color.

REACTIVITY & CONDITIONS TO AVOID

Stable. May react with metals to release hydrogen.

FIRE HAZARDS

None. Firefighters wear SCBA. NFPA # 1-0-1

EXTINGUISHER

Fight surrounding fire.

FLASHPOINT

N/A

LEL

N/A

UEL

N/A

HEALTH HAZARDS

May be irritating to skin, eyes, mucous membranes, especially if concentrated. Inhalation may cause throat and lung damage. Toxicity is not the main hazard from the material. LC₅₀ (inh-rat) 3124 ppm HCl (1 hour); LD₅₀ (oral-rat) 900 mg (HCl)/kg. OSHA TLV/ACGIH PEL: 5 ppm HCl (ceiling). No evidence of carcinogenicity.

SPECIAL PRECAUTIONS

Use eye protection. Use good laboratory practices.

FIRST AID

Wash skin or eyes with water. Get medical attention if irritation persists or if discomfort develops.

SPILLS & LEAKS

Wash up with water. Disposal to drain. Check local regulations.

CATALOG #

544

PREPARED BY

MDM

DATE

October 23, 2006