

GFS CHEMICALS, INC.

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1-800-424-9300(Chemtrec 24Hr. Info.)

MATERIAL SAFETY DATA SHEET

650

FORMIC ACID, 88%

CHEMICAL NAME & SYNONYMS

Formic Acid, 88%; Methanoic acid; formylic acid

DOT CLASS

8/II

SARA TITLE 313

No

TSCA listed - Yes

FORMULA

HCOOH 88-96%
H₂O 4-12%

REPORTABLE QUANTITY

2270 kg
N/A

F.W.

46.03
18.02

CAS#

64-18-6
7732-18-5

PHYSICAL DATA

Melting point -2°C; Boiling point 101°C; Density 1.22; Vapor pressure 40 mm at 24°C; Vapor density 1.59; pH 2.0-2.1; Completely miscible with water; Soluble in alcohol.

APPEARANCE & ODOR

Clear, colorless to yellow liquid. Pungent odor.

REACTIVITY & CONDITIONS TO AVOID

Stable, no spontaneous self-reaction. Incompatible with oxidizers, sulfuric acid. Corrosive.

FIRE HAZARDS

Combustible material. Avoid using near ignition source. Firefighters wear SCBA. NFPA # 2-2-1

EXTINGUISHER

CO₂ or dry chemical

FLASHPOINT

56°C

LEL

14%

UEL

38%

HEALTH HAZARDS

Corrosive and irritating to skin, eyes and mucous membranes. Causes severe burns, which may cause permanent eye damage. Prolonged or repeated exposure may cause liver and kidney damage. Toxicity: LD₅₀ (oral-rat) 730 mg (HCOOH)/kg. OSHA PEL/ACGIH TLV TWA: 5 ppm; ACGIH STEL 10 ppm. No evidence of carcinogenicity.

SPECIAL PRECAUTIONS

Wear goggles and rubber gloves while handling. Store away from oxidizers. Eye wash and water supply must be immediately available.

FIRST AID

Wash skin or eyes thoroughly with water. Get medical attention if eyes involved or if burns are severe. Inhalation, remove to fresh air. If breathing is difficult, give oxygen. If swallowed, give water or milk with milk of magnesia and get medical attention.

SPILLS & LEAKS

Neutralize spill with soda ash or lime. Wash up with water. Disposal to sanitary drain or to incinerator. Consult local regulations prior to disposal.

CATALOG #

650

PREPARED BY

MDM

DATE

November 19, 2004