

GFS CHEMICALS, INC.
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MATERIAL SAFETY DATA SHEET

71

PERCHLORIC ACID, 0.1 N in ACETIC ACID

CHEMICAL NAME & SYNONYMS

Perchloric acid, 0.1 N in Acetic Acid

DOT CLASS

8/3/II

SARA TITLE 313

No

TSCA listed - Yes

FORMULA

HClO₄ 1%
CH₃COOH 99%

REPORTABLE QUANTITY

N/A
2270 kg

F.W.

100.5
60.05

CAS#

7601-90-3
64-19-7

PHYSICAL DATA

Density 1.05; Boiling point 118°C; Freezing point 16.7°C. Soluble in water, alcohol and ether. Vapor pressure 11.4 mm at 20°C. Vapor density 2.07.

APPEARANCE & ODOR

Clear, colorless liquid. Freezes if cool (below 62°F). Pungent odor similar to vinegar.

REACTIVITY & CONDITIONS TO AVOID

Stable. Incompatible with oxidizers. Does not undergo any spontaneous self-reaction. Avoid concentration by evaporation.

FIRE HAZARDS

Burns readily, especially when heated. Firefighters wear SCBA. NFPA # 2-2-0.

EXTINGUISHER

Water spray, CO₂, foam or dry chemical

FLASHPOINT

39°C

LEL

5.4%

UEL

16.0%

HEALTH HAZARDS

Irritating to skin, eyes and mucous membranes, can cause severe burns. Toxicity is low LD₅₀ (oral-rat) 3310 mg (acetic acid) kg, LC_{Lo} (inhl-rat) 16000 ppm (acetic acid)/4 hr. OSHA PEL/ACGIH TLV TWA: 10 ppm (acetic acid); ACGIH STEL 15 ppm (acetic acid). No evidence of carcinogenicity.

SPECIAL PRECAUTIONS

Wear goggles and rubber gloves when handling. Use with good ventilation. Keep away from ignition sources. Must have eye wash and water supply available.

FIRST AID

Wash contact area thoroughly with water. For eyes, get medical attention after washing. If ingested, give milk of magnesia and get medical attention. For inhalation remove to fresh air. If breathing is difficult give oxygen.

SPILLS & LEAKS

Neutralize spill with soda or lime. Wash up with water. Disposal of neutralized solution to sanitary drain or to incinerator.

CATALOG #

71

PREPARED BY

MDM

DATE

April 19, 2004