

GFS CHEMICALS, INC.
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MATERIAL SAFETY DATA SHEET

5204

p-BENZYLOXYPHENYL MAGNESIUM BROMIDE, 0.8 M, in TETRAHYDROFURAN

CHEMICAL NAME & SYNONYMS

p-Benzyloxyphenyl Magnesium Bromide, 0.8 M,
in Tetrahydrofuran (THF)

DOT CLASS

4.3/3/III

SARA TITLE 313

No

TSCA listed - No

FORMULA

C₆H₅CH₂OC₆H₄MgBr 23%
C₄H₈O 77%

REPORTABLE QUANTITY

N/A
454 kg

F.W.

287.45
72.11

CAS#

120186-59-6
109-99-9

PHYSICAL DATA

Boiling point (THF) 65-67°C; Vapor pressure (of THF) 114 mm at 15°C; Vapor density 2.5.

APPEARANCE & ODOR

Gray to straw colored, turbid liquid. Strong ethereal odor.

REACTIVITY & CONDITIONS TO AVOID

May form explosive peroxides on long standing after opening, especially when distilled or evaporated (which concentrates the peroxides formed). Incompatible with oxidizing materials, oxygen and water.

FIRE HAZARDS

Highly flammable. Reacts with water to form flammable gases. Avoid ignition sources. Firefighters wear SCBA. NFPA # 3-3-3.

EXTINGUISHER

Dry chemical, CO₂ and foam.

FLASHPOINT

-17°C

LEL

1.8%

UEL

11.8%

HEALTH HAZARDS

Irritating to skin, eyes and mucous membranes. Narcotic in high concentrations. Chronic exposure may cause liver and kidney damage. Harmful if swallowed, inhaled or absorbed through the skin. TC_{Lo} (ihl-human) 25000 ppm (THF) CNS effects. LD₅₀ (oral-rat) 1650 mg (THF)/kg. LC₅₀ (inhal-rat) 21,000 ppm. OSHA PEL /ACGIH TLV: TWA 200 ppm; ACGIH STEL: 250 ppm. An NTP lifetime study on rats and mice suggests that tetrahydrofuran may be a carcinogen in laboratory animals. There is no data linking exposure to cancer in humans.

SPECIAL PRECAUTIONS

Wear goggles and suitable gloves while handling. Use only with adequate ventilation. Do not store containers once they have been opened. Store in well ventilated area. Check regularly for peroxides and before evaporating material to dryness.

FIRST AID

Wash skin and eyes thoroughly with water after contact. Inhalation remove to fresh air. If breathing is difficult give oxygen, if breathing stops give artificial respiration. Get medical assistance.

SPILLS & LEAKS

Ventilate area. Remove ignition sources. Equip responders with protective gear and take up spill in suitable absorbent and incinerate.

CATALOG #

5204

PREPARED BY

MDM

DATE

August 5, 2005