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MATERIAL SAFETY DATA SHEET

5264

CYCLOPROPYLMAGNESIUM BROMIDE, 0.75 M, in TETRAHYDROFURAN

CHEMICAL NAME & SYNONYMS	DOT CLASS	SARA TITLE 313
Cyclopropylmagnesium Bromide, 0.75 M, in Tetrahydrofuran (THF)	4.3/3/I	No
	TSCA listed - No	

FORMULA		REPORTABLE QUANTITY	F.W.	CAS#
C_3H_5MgBr	10-12%	N/A	145.28	23719-80-4
C_4H_8O	88-90%	454 kg	72.11	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, turbid solution/suspension. 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	FLASHPOINT	LEL	UEL
Dry chemical, CO_2 and foam.	-17°C	1.8%	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. LD_{50} (oral-rat) 1650 mg (THF)/kg. LC_{50} (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, protected from moisture. 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 #	PREPARED BY	DATE
5264	MDM	June 30, 2006