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MORION THIOKOL, INC.

Products

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OVER STREET
MA 01923

DISTRIBUTED BY
CHEMPLY DIVISION
UNITED CHEMICALS INC.
P. O. BOX 18049
PITTSBURGH, PA 15236

MAGNESIUM CARBONATE

PRODUCT CODE: 20314
ISSUE DATE: Nov. 1985
REVISED DATE: Feb. 1987



FOR INFORMATION CONTACT:

VENTRON HEALTH AND SAFETY DEPT.
(508) 774-3100

TELEPHONE INFORMATION: ChemTrec 1-800-424-9300

IDENTIFICATION
Trade Name: Elastocarb* Magnesium Carbonate Light Technical

Mag Carb
Basic Magnesium Carbonate
Synthetic Hydromagnesite

CHEMICAL FAMILY: Alkaline Earth Mixed Salt
CAS #: 12072-90-1
MOLECULAR FORMULA: $3.2MgCO_3 \cdot Mg(OH)_2 \cdot 3.2H_2O$

INGREDIENTS
Magnesium Carbonate CAS #: 12072-90-1 99.0 PEL: 15mg/m3 TLV - ACGIH: 10mg/m3

PHYSICAL DATA

See below
2.16
Not applicable

% VOLATILES: 2.0-3.0
FREEZING/MELTING POINT: None
VAPOR PRESSURE (mm Hg at 20°C): Nil

SOLUBILITY IN WATER (% WT): 0.0
EVAPORATION RATE: Nil
(BUTYL ACETATE = 1)

White powder, odorless

Decomposition at 250 C (releases water, carbon dioxide and converts to magnesium oxide). 99% pure magnesium carbonate
a volatile free basis. Volatiles are 0.5 to 2.5%

FIRE AND EXPLOSION DATA

None
None
Not applicable

FLAMMABLE LIMITS (% BY VOLUME): None LEL None UEL

SAFETY PRECAUTIONS PROCEDURE: Wear self-contained breathing apparatus, as large volumes of MgCO₃ can release CO/CO₂ when
posed to elevated temperatures.

HEALTH DATA

15mg/m³ as nuisance dust; 5 mg/m³ as respirable dust ACGIH (TLV): 10mg/m³ as nuisance dust; 5 mg/m³ respirable dust

TOXICITY

Not established

Not established

MgCO₃ is listed by the F.D.A. as generally recognized as safe (GRAS) in foods.

EXPOSURE (HUMAN)

Antacid effect when 600 mg ingested; laxative effect when 10 gram ingested

Essentially no irritation

May cause eye irritation

May cause irritation of respiratory system

AGGRAVATED BY THE CHEMICAL: Lung disorders (i.e. emphysema, bronchitis)

SYMPTOMS: None known

ROUTE OF ENTRY: Ingestion and inhalation

May cause iron deficiency

None known

None known

None known

None known

FIRST AID PROCEDURES

If patient is conscious, give several glasses of water and induce vomiting. Obtain medical attention.

Wash thoroughly with water.

Immediately flush with large amounts of water for 15 minutes, including under eyelids. Obtain medical attention.

Remove to fresh air. If breathing stops, give artificial respiration. If breathing is difficult, give oxygen. Obtain immediate medical attention.

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REACTIVITY

Will react with acids evolving heat.

DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may result in CO/CO₂

HAZARDOUS POLYMERIZATION: None known

Stable
None known

HAZARDOUS POLYMERIZATION: Will not occur

ENVIRONMENTAL INFORMATION

None

ISCA REGISTERED: Yes

DISPOSAL PROCEDURES: Place material into a container for disposal.

Contact local, state and federal EPA for proper disposal.

PROTECTION INFORMATION

REQUIREMENTS: Use ventilation adequate to keep airborne concentrations below PEL/TLV.

HAZARD IDENTIFICATION: If PEL/TLV is exceeded, use NIOSH approved dust respirator. Follow respirator program as established by

HA 29CFR1910.134.

RECOMMENDED PPE:

Cotton

RECOMMENDED PPE:

Safety glasses

SPECIAL PRECAUTIONS

RECOMMENDED STORAGE: None

RECOMMENDED CONTAINERS: None known

TRANSPORTATION INFORMATION - U.S. D.O.T.

HAZARD IDENTIFICATION NAME: Not regulated

HAZARD IDENTIFICATION: None

COMMENTS

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