

MORTON THIOKOL, INC.**Ventron Products**150 ANDOVER STREET
DANVERS, MA 01923

EMERGENCY INFORMATION: ChemTrec 1-800-424-9300

PRODUCT CODE: 20660
ISSUE DATE: Nov. 1985
REVISED DATE:

FOR INFORMATION CONTACT:

VENTRON HEALTH AND SAFETY DEPT.
(617) 774-3100**SECTION 1 IDENTIFICATION**

PRODUCT NAME: Magnesium Oxide Technical

SYNONYMS: Magnesium Oxide
Mag Oxide

CHEMICAL FAMILY: Alkaline Earth Oxide

CAS #: 1309-48-4

MOLECULAR FORMULA: MgO

SECTION 2 INGREDIENTS

CHEMICAL: Magnesium Oxide CAS #: 1309-48-4 %: 99.0 PEL: 15mg/m3 TLV — ACGIH: 10mg/m3

SECTION 3 PHYSICAL DATABOILING POINT (760mm Hg): 3600 C % VOLATILES: See below SOLUBILITY IN WATER (% WT): See below
SPECIFIC GRAVITY (H₂O = 1): 2.4 FREEZING/MELTING POINT: 2852 C EVAPORATION RATE: 0.0
VAPOR DENSITY (AIR = 1): Not applicable VAPOR PRESSURE (mm Hg at 20°C): Nil (BUTYL ACETATE = 1)APPEARANCE AND ODOR: White powder. No odor.
OTHER: Apparent specific gravity 2.4. 99% pure magnesium oxide on a volatile free basis. Volatiles are 0.5 - 2.5%.
Exothermic reaction with water to form insoluble magnesium hydroxide**SECTION 4 FIRE AND EXPLOSION DATA**FLASH POINT (METHOD USED): None °F FLAMMABLE LIMITS (% BY VOLUME): None LEL None UEL
AUTOIGNITION TEMPERATURE: None
EXTINGUISHING MEDIA: Not applicable

SPECIAL FIRE FIGHTING PROCEDURE: None

SECTION 5 HEALTH DATA
OSHA (PEL): 15mg/m³ as nuisance dust; 5mg/m³ respirable dust ACGIH (TLV): 10 mg/m³ as nuisance dust, 5 mg/m³ as respirable dust

A. ANIMAL TOXICITY

LD₅₀: Not established
LC₅₀: Not established
OTHER: MgO is listed by the F.D.A. as generally recognized as safe (GRAS) in foods.

B. EFFECTS OF EXPOSURE (HUMAN)**ACUTE EFFECTS**

INGESTION: Antacid effect when 600 mg ingested; laxative effect when 8 grams ingested
SKIN CONTACT: Irritation
EYE CONTACT: Irritation
INHALATION: Irritation of respiratory system
MEDICAL CONDITIONS, IF ANY, AGGRAVATED BY THE CHEMICAL: As with any nuisance dust, exposure by inhalation may aggravate respiratory disorders.
OTHER HEALTH HAZARDS: This material causes irritation through its rapid drying action.
MOST LIKELY ROUTES OF ENTRY: Ingestion and inhalation

CHRONIC EFFECTS

INGESTION: None known
SKIN CONTACT: None known
EYE CONTACT: None known
INHALATION: Prolonged exposure to dust may cause bronchitis.
OTHER: None known

C. EMERGENCY AND FIRST-AID PROCEDURES

INGESTION: Give two glasses of water. If large amounts ingested, induce vomiting. Call a physician. Do not give liquids to an unconscious person.
SKIN CONTACT: Wash thoroughly with water.
EYE CONTACT: Immediately flush with large amounts of water for at least 15 minutes, including under eyelids. Call a physician.
INHALATION: Remove to fresh air.

SECTION 6 REACTIVITY

INCOMPATIBILITY: Will react with acids evolving heat.

HAZARDOUS DECOMPOSITION PRODUCTS: None known

CONDITIONS TO AVOID: None known

STABILITY: Stable
OTHER: None known

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 7 ENVIRONMENTAL INFORMATION

RCRA CODE: None TSCA REGISTERED: Yes
SPILL, LEAK OR RELEASE PROCEDURES: Place material into a container for disposal.

WASTE DISPOSAL: Contact local, state or federal EPA for proper disposal.

SECTION 8 PROTECTION INFORMATION

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

RESPIRATORY PROTECTION: If TLV/PEL of product is exceeded use NIOSH approved dust respirator.

PROTECTIVE GLOVES: Rubber

EYE/FACE PROTECTION: Safety glasses

SECTION 9 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: None known

OTHER PRECAUTIONS: None known

SECTION 10 TRANSPORTATION INFORMATION - U.S. D.O.T.

PROPER SHIPPING NAME: Not regulated
HAZARD CLASSIFICATION: None
UN #: None

SECTION 11 COMMENTS

None

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, ARE MADE HEREIN. MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER REPRESENTATIONS ARE MADE HEREIN UNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.