Morton Thiokol, Inc.
Ventron Products
150 ANDOVER STREET
DANVERS, MA 01923
EMERGENCY INFORMATION: ChemTrec 1-800-424-9300

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 DATA
BOILING POINT (760mm Hg): 3600 °C
SPECIFIC GRAVITY (H2O = 1): 2.4
VAPOR DENSITY (AIR = 1): Not applicable

% VOLATILES: See below
FREEZING/MELTING POINT: See below
VAPOR PRESSURE (mm Hg at 20°C): 2852 °C
N11

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

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
AUTOIGNITION TEMPERATURE: None
EXTINGUISHING MEDIA: Not applicable

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

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: Physician. Immediately flush with large amounts of water for at least 15 minutes, including under eyelids. Call a

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

HAZARDOUS POLYMERIZATION: Will not occur.

OTHER: None known

SECTION 7. ENVIRONMENTAL INFORMATION

RCRA CODE: None

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 MERCHANDABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NEED.