MATERIAL SAFETY DATA SHEET

PRODUCT/MATERIAL: MAGNESIUM CARBONATE
MANUFACTURER/DISTRIBUTOR: WHITTAKER, CLARK & DANIELS, INC.
ADDRESS: 1000 COOLIDGE STREET
SOUTH PLAINFIELD, NJ 07080
EMERGENCY TELEPHONE NO.: (908) 561-6100

SECTION I - PRODUCT IDENTIFICATION

NAME: MAGNESIUM CARBONATE
CAS NUMBER: 546-93-0
APPEARANCE AND ODOR: WHITE POWDER, OR GRANULES; ODORLESS
FORMULA: MgCO₃

SECTION II - HAZARDOUS INGREDIENTS


COMMON NAME/CHEMICAL NAME: MAGNESIUM CARBONATE
CAS NUMBER: 546-93-0
APPROXIMATE %: 100

SECTION III - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

SKIN CONTACT

CONTACT WITH THE SKIN DOES NOT NORMALLY REQUIRE MEDICAL ATTENTION. HOWEVER, IT IS ADVISABLE TO FLUSH THE AFFECTED AREA WITH PLENTY OF WATER TO REMOVE ANY PRODUCT RESIDUE.

INHALATION

REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, SEEK IMMEDIATE MEDICAL ATTENTION. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH.

INGESTION

CALL A POISON CONTROL CENTER, EMERGENCY ROOM, OR PHYSICIAN, UNLESS ADVISED OTHERWISE. INDUCE VOMITING BY GIVING EITHER SYRUP OF IPECAC FOLLOWED BY 2 GLASSES OF WATER OR BY STICKING FINGER DOWN THROAT.

IF THE PERSON IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH OR LEAVE ALONE. NEVER GIVE ANYTHING TO DRINK TO A PERSON WHO IS CONVULSING OR HAS NO GAG REFLEX. LOOSEN TIGHT FITTING CLOTHING, CLEAR THE AIRWAY, AND KEEP THE PERSON WARM.

NOTE TO PHYSICIAN

NO SPECIFIC ANTIDOTE IS KNOWN. THERAPY IS DIRECTED AT PREVENTING ABSORPTION, ADMINISTERING TO THE SYMPTOMS AS THEY OCCUR, AND PROVIDING SUPPORTIVE THERAPY.
SECTION IV - HEALTH EFFECTS SUMMARY

PRIMARY ROUTE(S) OF EXPOSURE

EYE - YES  SKIN - YES  INHALATION - YES

ADDITONAL EFFECTS

EYE - YES  SKIN - YES  INHALATION - YES

AGGRAVATION OF EXISTING CONDITIONS

NO ADVERSE EFFECTS ARE EXPECTED FOLLOWING INCIDENTAL CONTACT WITH THE SKIN.
HIGH AIRBORNE LEVELS OF DUST CAN CAUSE NOSE AND THROAT IRRITATION.
DIARRHEA AND/OR ABDOMINAL PAIN CAN OCCUR FOLLOWING INGESTION.

SECTION V - TOXICOLOGIC INFORMATION

MAGNESIUM CARBONATE, BASIC

TOXIC EFFECTS

EYE CONTACT CAN CAUSE IRRITATION WHILE THE INHALATION OF DUST MAY IRRITATE THE NASAL MUCOSA. IF INGESTED IN LARGE AMOUNTS, DIARRHEA AND ABDOMINAL PAIN CAN RESULT.

CARCINOGENICITY - LISTED BY

ACGIH: NO  IARC MONOGRAPHS: NO  NTP ANNUAL REPORT: NO  OSHA: NO

SECTION VI - OCCUPATIONAL CONTROL PROCEDURES

EYE PROTECTION

WEAR CHEMICAL SPLASH GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.
AN EYE WASH FACILITY SHOULD BE READILY AVAILABLE.

SKIN PROTECTION

THIS PRODUCT IS NOT EXPECTED TO PRESENT SIGNIFICANT DERMAL HAZARD. HOWEVER, SKIN EXPOSURE SHOULD BE MINIMIZED AS GOOD INDUSTRIAL PRACTICE. THE USE OF PROTECTIVE GLOVES AND CLOTHING IS, THEREFORE, RECOMMENDED.

RESPIRATORY PROTECTION

AVOID BREATHING DUST.

WHEN ESTABLISHED AIRBORNE EXPOSURE LIMITS ARE SURPASSED (SEE AIRBORNE EXPOSURE LIMITS IN THIS SECTION), WEAR NIOSH/MSHA APPROVED EQUIPMENT. DETERMINE THE APPROPRIATE TYPE EQUIPMENT FOR SPECIFIC APPLICATION BY CONSULTING THE RESPIRATOR

Technical Services Department  •  1000 Coolidge Street  •  South Plainfield, New Jersey 07080-1000  •  (800) 732-0562  •  FAX: (800) 833-8139
MANUFACTURER. OBSERVE THE RESPIRATOR USE LIMITATIONS SPECIFIED BY NIOSH/MSHA OR THE MANUFACTURER.

HIGH AIRBORNE CONCENTRATIONS MAY NECESSITATE THE USE OF SELF-CONTAINED BREATHING APPARATUS (SCBA) OR A SUPPLIED AIR RESPIRATOR. IN ADDITION, RESPIRATORY PROTECTION PROGRAMS MUST BE IN COMPLIANCE WITH 29 CFR 1910.134.

VENTILATION

MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS (SEE AIRBORNE EXPOSURE LIMITS IN THIS SECTION) BY PROVIDING ADEQUATE VENTILATION. GENERAL (DILUTION) VENTILATION MAY BE ACCEPTABLE. HOWEVER, LOCAL EXHAUST VENTILATION IS RECOMMENDED WHEN VAPORS, MISTS OR DUSTS CAN BE RELEASED.

PERSONAL HYGIENE

WASH THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING, DRINKING, SMOKING OR USING RESTROOM FACILITIES. CONTAMINATED CLOTHING AND SHOES SHOULD BE THOROUGHLY CLEANED AND DRIED BEFORE REUSE.

AIRBORNE EXPOSURE LIMITS

ACGIH TWA: 5(10)* mg/ cu. m RESPIRABLE FRACTION (TOTAL PARTICULATE)
OSHA PEL: 5(10)* mg/ cu. m RESPIRABLE FRACTION (TOTAL PARTICULATE)

* ACGIH: PARICULATE NOT OTHERWISE CLASSIFIED. OSHA: MUISANCE DUST

SECTION VII - FIRE PROTECTION INFORMATION

FLASH POINT
TEST METHOD
EXPLOSIVE LIMITS
LEL (%) NOT APPLICABLE
UEL (%) NOT APPLICABLE

AUTOIGNITION TEMPERATURE
NOT APPLICABLE

EXTINGUISHING MEDIA
THIS PRODUCT DOES NOT BURN.

SPECIAL FIRE FIGHTING PROCEDURES
SPECIAL EQUIPMENT IS NOT REQUIRED. THIS PRODUCT DOES NOT BURN.

UNUSUAL FIRE AND EXPLOSION HAZARDS
NONE KNOWN

SECTION VIII - REACTIVITY DATA

STABLE UNDER NORMAL CONDITIONS OF STORAGE AND USE :YES
MATERIALS TO AVOID ACIDS
HAZARDOUS POLYMERIZATION HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

THERMAL DECOMPOSITION PRODUCTS IF HEATED TO HIGH TEMPERATURES, THIS PRODUCT MAY EMIT THE FOLLOWING COMPOUNDS METALLIC OXIDES, CARBON MONOXIDE AND CARBON DIOXIDE.

SECTION IX - SPILL AND LEAK PROCEDURES

SHOVEL OR VACUUM SPILLED PRODUCT AND PLACE IN CLOSED CONTAINERS FOR FURTHER HANDLING AND DISPOSAL

DO NOT FLUSH TO SEWER, STREAM OR OTHER BODIES OF WATER UNLESS AUTHORIZED TO DO SO BY APPROPRIATE GOVERNMENT OFFICIALS

PRECAUTIONS

IF THE AIRBORNE CONCENTRATION EXCEEDS ESTABLISHED EXPOSURE LIMITS (TLV OR PEL), OR IF HIGH AIRBORNE CONCENTRATIONS CAN OCCUR EVACUATE EMPLOYEES AND VENTILATE THE AREA.
A supplied air respirator or self-contained breathing apparatus (SCBA), should be used for entry into enclosed spaces, or in areas with inadequate ventilation.

SPILL NOTIFICATION

This product may contain one or more hazardous substances listed either by the U.S. EPA (CERCLA, 40 CFR 302.4) or by the U.S. DOT (49 CFR 172.101) for which a "reportable quantity" (RQ) has been established. If a quantity equal to or greater than the established RQ is released into the environment, the National Response Center (NRC) at 800-424-8802 must be notified immediately. This product may also contain an extremely hazardous substance (see Section 13), which may also contain an extremely hazardous substance (see Section 13), which may require additional reporting under SARA Title III (40 CFR 355.40). Other federal, state and local reporting regulations may apply.

DISPOSAL METHODS

If discarded in its original unused form, this product does not meet the definition of a RCRA hazardous waste under 40 CFR 261. Nevertheless, it should be managed (stored/treated/disposed/etc.) at an authorized facility, in compliance with all applicable federal, state and local requirements. Be sure to contact appropriate government environmental agencies if further disposal guidance is required.

Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability:

1. Recycle or rework if at all possible
2. Incinerate at an authorized facility
3. Treat at an acceptable waste treatment facility or
4. Landfill at an approved facility (solidification or fixation may be required prior to disposal).

SECTION X - SPECIAL PRECAUTIONS

RECOMMENDED STORAGE PRACTICE AND CONDITIONS:

Store in cool, dry, well ventilated area.

CONTAINER USE PROCEDURES

EMPTY CONTAINER PRECAUTIONS

No special precautions are needed. Follow good manufacturing and handling practices. This container can be hazardous when empty, because it can retain product residues. Therefore, do not reuse container for food, clothing or products for human or animal consumption or where skin contact may occur.

SECTION XI - PHYSICAL DATA

% NON-VOLATILE (BY WEIGHT): >98

pH NOT APPLICABLE

VAPOR DENSITY (AIR 1): NOT APPLICABLE

SOLUBILITY IN WATER: INSOLUBLE

EVAPORATION RATE (n-BUTYL ACETATE 1): NIL

VAPOR PRESSURE (mmHg @ 25 DEGREES C): NIL

SPECIFIC GRAVITY (WATER 1): 2.16

APPROXIMATE BOILING POINT (@ 1 ATM): NOT APPLICABLE

SUPPLEMENTAL SECTION 11 INFORMATION

CHEMICAL FAMILY: ALKALINE EARTH MIXED SALT

DECOMPOSITION TEMPERATURE: 250°C
WHITTAKER, CLARK & DAN ELS, NC
MINERALS, COLORS, CHEMICALS

NOTE: THE PHYSICAL DATA PRESENTED ABOVE ARE TYPICAL VALUES AND SHOULD NOT BE CONSTRUED AS A SPECIFICATION

SECTION XII - REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA)  THE CHEMICAL COMPONENTS OF THIS PRODUCT ARE CONTAINED ON THE SECTION 8(B) CHEMICAL SUBSTANCE INVENTORY LIST (40 CFR 710).

SARA TITLE III INFORMATION

SECTION 313 - TOXIC CHEMICALS  PURSUANT TO SECTION 313 OF SARA TITLE III, THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL IN EXCESS OF 1 PERCENT OF THE MIXTURE (0.1 PERCENT, IF THE LISTED TOXIC CHEMICAL IS A CARCINOGEN).

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES  PURSUANT TO SECTION 302 OF SARA TITLE III, THIS PRODUCT DOES NOT CONTAIN AN EXTREMELY HAZARDOUS SUBSTANCE.

SECTION 311/312 - HAZARD CATEGORIES  PURSUANT TO SECTION 311/312 OF SARA TITLE III, THE PHYSICAL AND HEALTH HAZARD CATEGORIES FOR THIS PRODUCT ARE IDENTIFIED BELOW:

FIRE HAZARD: NO
SUDDEN RELEASE OF PRESSURE HAZARD: NO
REACTIVITY HAZARD: NO
IMMEDIATE (ACUTE) HEALTH HAZARD: YES
DELAYED (CHRONIC) HEALTH HAZARD: NO

HAZARDOUS MATERIALS INFORMATION REVIEW REGULATIONS - CANADA

THIS MATERIAL SAFETY DATA SHEET PROVIDES INFORMATION THAT COMPLIES WITH THE REQUIREMENTS SETFORTH UNDER THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS).

CLAIM FOR REGISTRY NO.:  NOT APPLICABLE
EXPIRATION DATE:  NOT APPLICABLE

SUPPLEMENTAL SECTION 13 INFORMATION

COMMONWEALTH OF MASSACHUSETTS RIGHT TO KNOW: THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY MATERIAL LISTED IN THE MASSACHUSETTS GENERAL LAWS, CHAPTER 111F.

SECTION XIV - USERS RESPONSIBILITY

A BULLETIN SUCH AS THIS CANNOT BE EXPECTED TO COVER ALL POSSIBLE INDIVIDUAL SITUATIONS. AS THE USER HAS THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE. ALL ASPECTS OF AN INDIVIDUAL OPERATION SHOULD BE EXAMINED TO DETERMINE IF, OR WHERE, PRECAUTIONS - IN ADDITION TO THOSE DESCRIBED HEREIN - ARE REQUIRED, ANY HEALTH HAZARD AND SAFETY INFORMATION CONTAINED HEREIN SHOULD BE PASSED ON TO YOUR CUSTOMERS OR EMPLOYEES.

DISCLAIMER OF LIABILITY

THE INFORMATION CONTAINED IN HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF IS ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGE INCURRED BY USE OF THIS MATERIAL. 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, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS. IT IS THE RESPONSIBILITY OF
THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

NOTHING CONTAINED HEREIN IS TO BE CONSTRUED AS A RECOMMENDATION FOR USE IN VIOLATION OF ANY PATENTS OR OF APPLICABLE LAWS OR REGULATIONS.

COMMONWEALTH OF PENNSYLVANIA ADDENDUM TO THE MATERIAL SAFETY DATA SHEET

PRODUCT NAME MANGNESIUM CARBONATE

ALL OF THE MATERIALS IN THIS PRODUCT THAT ARE REQUIRED BY THE COMMONWEALTH OF PENNSYLVANIA TO BE IDENTIFIED ARE LISTED BELOW. IN ADDITION, SOME OF THE MATERIALS IDENTIFIED MAY HAVE BEEN PLACED BY THE COMMONWEALTH OF PENNSYLVANIA ON THEIR HAZARDOUS SUBSTANCE LIST.

INGREDIENTS MANGNESIUM CARBONATE, BASIC
CAS NUMBER 546-93-0
WEIGHT % 100

THE SPECIFIC CHEMICAL IDENTITY OF ANY SUBSTANCE NOT IDENTIFIED WITH A CHEMICAL ABSTRACT SERVICE NUMBER IS BEING HELD AS A TRADE SECRET.

STATE OF CALIFORNIA ADDENDUM TO THE MATERIAL SAFETY DATA SHEET

PRODUCT NAME MANGNESIUM CARBONATE

THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986, OTHERWISE KNOWN AS PROPOSITION 65, REQUIRES THAT PERSONS POTENTIALLY EXPOSED TO CERTAIN SUBSTANCES BE MADE AWARE OF THE CHRONIC EFFECTS OF THE SUBSTANCES SPECIFIED BY THE STATE OF CALIFORNIA.

THIS PRODUCT IS NOT KNOWN TO CONTAIN SUBSTANCES "KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM."

ISSUED: 4/93
SUPERCEDES: 6/91