



# WHITTAKER, CLARK & DANIELS, NC

MINERALS, COLORS, CHEMICALS

## 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                             MgCO<sub>3</sub>

## SECTION II - HAZARDOUS INGREDIENTS

A HAZARD EVALUATION OF THIS PRODUCT HAS BEEN PERFORMED. THE COMPONENT LISTED BELOW IS IDENTIFIED AS A HAZARDOUS CHEMICAL UNDER THE CRITERIA OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

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.



# WHITTAKER CLARK & DAN E S. NC

MINERALS, COLORS, CHEMICALS

## SECTION IV - HEALTH EFFECTS SUMMARY

PRIMARY ROUTE(S) OF EXPOSURE	EYE - YES    SKIN - YES    INHALATION - YES
EYE CONTACT	DUST CAN BE IRRITATING TO THE OCULAR TISSUES.
SKIN CONTACT	NO ADVERSE EFFECTS ARE EXPECTED FOLLOWING INCIDENTAL CONTACT WITH THE SKIN.
INHALATION	HIGH AIRBORNE LEVELS OF DUST CAN CAUSE NOSE AND THROAT IRRITATION.
INGESTION	DIARRHEA AND/OR ABDOMINAL PAIN CAN OCCUR FOLLOWING INGESTION.
ADDITIONAL EFFECTS	DEPENDING ON THE ROUTE, FREQUENCY AND DURATION OF EXPOSURE, TOXICITY MAY OCCUR IN THE FOLLOWING ORGANS AND/OR SYSTEMS: EYE
AGGRAVATION OF EXISTING CONDITIONS	SOME OF THE COMPONENTS IN THIS PRODUCT MAY AGGRAVATE EXISTING MEDICAL CONDITIONS; CONSEQUENTLY, CERTAIN INDIVIDUALS MAY BE MORE SUSCEPTIBLE TO THE POSSIBLE EFFECTS PRODUCED BY OVEREXPOSURE. INDIVIDUALS WITH MEDICAL CONDITIONS INVOLVING THE FOLLOWING ORGAN(S) AND/OR SYSTEM(S) SHOULD TAKE APPROPRIATE PRECAUTIONS WHEN HANDLING THIS PRODUCT: RESPIRATORY SYSTEM.

ALWAYS WEAR APPROPRIATE PROTECTIVE EQUIPMENT. AS RECOMMENDED BY YOUR INDUSTRIAL HYGIENE OR SAFETY PERSONNEL, WHEN EXPOSURE TO THIS PRODUCT CAN OCCUR. IT IS IMPERATIVE THAT GOOD INDUSTRIAL HANDLING PRACTICES ALWAYS BE OBSERVED.

## SECTION V - TOXICOLOGIC INFORMATION

THIS SECTION PROVIDES RELEVANT INFORMATION WITH REGARD TO THE TOXICITY OF THE "PURE" FORM OF THE COMPONENT(S) UNIDENTIFIED IN SECTION 2, AS WELL AS THE RESULTS OF ANY TOXICITY STUDIES PERFORMED ON THE PRODUCT. THOUGH DETAILED, THIS INFORMATION CAN BE SUBJECT TO MISINTERPRETATION. IT IS, THEREFORE, ESSENTIAL THAT THE FOLLOWING INFORMATION BE INTERPRETED BY INDIVIDUALS TRAINED IN ITS EVALUATION.

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



# WHITTAKER, CLARK & DANIELS NC

MINERALS, COLORS, CHEMICALS

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 TLV - TWA: 5(10)\* mg/ cu. ■ RESPIRABLE FRACTION (TOTAL PARTICULATE)

OSHA PEL: 5(10)\* mg/ cu. ■ RESPIRABLE FRACTION (TOTAL PARTICULATE)

\* ACGIH: PARTICULATE NOT OTHERWISE CLASSIFIED. OSHA: NUISANCE DUST

## SECTION VII - FIRE PROTECTION INFORMATION

FLASH POINT	NOT APPLICABLE
TEST METHOD	NOT APPLICABLE
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.



# WHITTAKER CLARK & DAN ELS, NC

MINERALS, COLORS, CHEMICALS

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

