

Material Safety Data Sheet


MPSI

 Mineral and Pigment
Solutions, Inc.

Magnesium Carbonate -

C.A.S. Number: 546-93-0 / MSDS C.A.S. Code: 0030

PRODUCT/MATERIAL: **MAGNESIUM CARBONATE**
MANUFACTURER/DISTRIBUTOR: MINERAL AND PIGMENT SOLUTIONS, 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:

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.

Information presented herein is believed to be accurate and reliable but is not intended to meet any specification and does not imply any guarantee or warranty by Mineral and Pigment Solutions, Inc. (MPSI). For more information and assistance, contact Technical Services at 1 (908) 561-6100.

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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

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 NASALMUCOSA. IF INGESTED IN LARGE AMOUNTS, DIARRHEA AND ABDOMINAL PAIN CAN RESULT.

CARCINOGENICITY - LISTED BY: ACGIH: NO **IARC MONOGRAPHS:** NO

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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 MAUNFACTURER. 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 FACILLITIES. CONTAMINATED CLOTHING AND SHOES SHOULD BE THOROUGHLY CLEANED AND DRIED BEFORE REUSE.

AIRBORNE EXPOSURE LIMITS:

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

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

ACGIH: PARICULATE 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

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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 ACCEPTIBILITY:

- (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

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DISPOSAL).

SECTION X - SPECIAL PRECAUTIONS:

RECOMMENDED STORAGE PRACTICE AND CONDITIONS: STORE IN COOL, DRY, WELL VENTILATED AREA.

CONTAINER USE PROCEDURES: NO SPECIAL PRECAUTIONS ARE NEEDED. FOLLOW GOOD MANUFACTURING AND HANDLING PRACTICES

EMPTY CONTAINER PRECAUTIONS: 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 °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

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

SECTION 311/312 - HAZARD CATEGORIES: PURSUANT TO SECTION 311/312 OF SARA TITLE III, THE PHYSICAL

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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 SET FORTH 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: MAGNESIUM 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

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