

ECO CorFlex

Molecular Industrial Polymers

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DURACUIRE ACCELERATOR

HMIS RATINGS: H F R

PRODUCT DESCRIPTION: MINERAL OXIDE

1 0 1

SECTION I: COMPANY IDENTIFICATION

DISTRIBUTOR'S NAME:	ECO-CORFLEX INDUSTRIAL POLYMERS		
ADDRESS:	4350 S. 38 TH ST., SUITE #110, PHOENIX, AZ 85040		
EMERGENCY PHONE #:	1-800-255-3924	DATE REVISED:	MAR 16, 2023
INFORMATION PHONE #:	1-866-406-2628	NAME OF PREPARER:	TECH. DEPT.

SECTION II: HAZARDS IDENTIFICATION

HMIS

HEALTH HAZARD: 1 - SLIGHT

FLAMMABILITY HAZARD: 0 - MINIMAL

REACTIVITY HAZARD: 1 - SLIGHT

PERSONAL PROTECTION: B – GLASSES, GLOVES

EMERGENCY OVERVIEW:

A BROWNISH, FREE FLOWING POWDER. NOT A FIRE OR SPILL HAZARD. LOW TOXICITY. DUST IS CLASSIFIED AS A "NUISANCE PARTICULATE NOT OTHERWISE REGULATED".

TARGET ORGANS: CHRONIC OVEREXPOSURE MAY CAUSE LUNG DAMAGE.

PRIMARY ROUTE(S) OF ENTRY: INHALATION

ACUTE EFFECTS: PARTICULATE MAY CAUSE EYE AND UPPER RESPIRATORY IRRITATION.

CHRONIC EFFECTS: PRODUCT DUST IS CLASSIFIED AS A "NUISANCE PARTICULATE, NOT OTHERWISE REGULATED" AS SPECIFIED BY ACGIH AND OSHA. THE EXCESSIVE, LONG-TERM INHALATION OF MINERAL DUSTS MAY CONTRIBUTE TO THE DEVELOPMENT OF INDUSTRIAL BRONCHITIS, REDUCED BREATHING CAPACITY, AND MAY LEAD TO THE INCREASED SUSCEPTIBILITY TO LUNG DISEASE.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

EYE CONTACT: PARTICULATE IS A PHYSICAL EYE IRRITANT.

SKIN CONTACT: LOW TOXICITY BY SKIN CONTACT.

INHALATION: CHRONIC OVEREXPOSURE BY INHALATION OF AIRBORNE PARTICULATE MAY IRRITATE UPPER RESPIRATORY SYSTEM AS WELL AS THE THROAT.

INGESTION: AN UNLIKELY ROUTE OF EXPOSURE. IF INGESTED IN SUFFICIENT QUANTITY, MAY CAUSE GASTROINTESTINAL DISTURBANCES. SYMPTOMS MAY INCLUDE IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

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SECTION III: COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	% BY WEIGHT
CALCINED MAGNESITE	1309-48-4	85-90
MAGNESIUM SULFATE	7487-88-9	10-15
QUARTZ	14808-60-7	0-1

*QUARTZ. PRODUCT MAY CONTAIN A TRACE OF QUARTZ, A POLYMORPH OF CRYSTALLINE SILICA, WHICH IS CLASSIFIED BY IARC AS A "KNOWN HUMAN CARCINOGEN - GROUP 1". NTP LISTS RESPIRABLE CRYSTALLINE SILICA AMONGST SUBSTANCES WHICH MAY "REASONABLY BE ANTICIPATED TO BE CARCINOGENS".

SECTION IV: FIRST AID MEASURES

EYE CONTACT: FLUSH EYES, INCLUDING UNDER THE EYELIDS, WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

SKIN CONTACT: WASH AFFECTED AREAS WITH MILD SOAP AND WATER.

INHALATION: REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: INGESTION IS AN UNLIKELY ROUTE OF EXPOSURE. IF INGESTED AND VICTIM IS CONSCIOUS, GIVE 1-2 GLASSES OF WATER OR MILK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. LEAVE DECISION TO INDUCE VOMITING TO QUALIFIED MEDICAL PERSONNEL, SINCE PARTICLES MAY BE ASPIRATED INTO THE LUNGS. SEEK IMMEDIATE MEDICAL ATTENTION.

SECTION V: FIRE FIGHTING MEASURES

NFPA CODE: FLAMMABILITY: 0, HEALTH: 1, REACTIVITY: 1, SPECIAL: 0.

FLASH POINT: NOT COMBUSTIBLE

UNUSUAL FIRE HAZARD / EXTINGUISHING MEDIA: NONE

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

FIREFIGHTING INSTRUCTIONS: FIREFIGHTERS SHOULD WEAR NIOSH-APPROVED, POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING WHEN APPROPRIATE.

SECTION VI: ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: CAREFULLY, CLEAN UP AND PLACE MATERIAL INTO A SUITABLE CONTAINER, BEING CAREFUL TO AVOID CREATING EXCESSIVE DUST FROM DRIED PRODUCT. IF CONDITIONS WARRANT, CLEAN UP PERSONNEL SHOULD WEAR APPROVED RESPIRATORY PROTECTION, GLOVES, AND GOGGLES TO PREVENT IRRITATION FROM CONTACT AND/OR INHALATION.

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SECTION VII: HANDLING AND STORAGE

STORAGE: STORE IN DRY, PROTECTED STORAGE. PRODUCT IS STABLE UNDER NORMAL CONDITIONS OF DRY STORAGE. MINIMIZE DUST GENERATION DURING MATERIAL HANDLING AND TRANSFER.

SECTION VIII: EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING CONTROLS: PROVIDE SUFFICIENT VENTILATION, IN BOTH VOLUME AND AIR FLOW PATTERNS TO CONTROL MIST/DUST CONCENTRATIONS BELOW ALLOWABLE EXPOSURE LIMITS.

PERSONAL PROTECTIVE EQUIPMENT: THE USE OF EYE PROTECTION, GLOVES AND LONG SLEEVE CLOTHING IS RECOMMENDED.

RESPIRATION PROTECTION: PROVIDE WORKERS WITH NIOSH APPROVED RESPIRATORS IN ACCORDANCE WITH REQUIREMENTS OF 29 CFR 1910.134 FOR LEVEL OF EXPOSURE INCURRED.

HYGIENIC PRACTICES: AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AFTER HANDLING THIS PRODUCT, WASH HANDS BEFORE EATING OR DRINKING.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: THE PRODUCT IS BROWNISH, FREE FLOWING POWDER; ODORLESS.

BOILING POINT: NOT APPLICABLE

BULK DENSITY (G/CC): 3.56

MELTING POINT: >3800°F (>2100°C)

BULK WEIGHT (LBS./CU.FT.): 60 - 70

WATER SOLUBILITY: SLIGHT <1%

% VOLATILE BY VOLUME: 0

PH (10% AQUEOUS SLURRY): 10-11

EVAPORATION RATE: NOT APPLICABLE

SECTION X: STABILITY & REACTIVITY DATA

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CHEMICAL INCOMPATIBILITIES: MAGNESIUM OXIDE IS SOLUBLE IN AQUEOUS ACIDS GENERATING HEAT AND STEAM; VIOLENT REACTION OR IGNITION WITH INTERHALOGENS (E.G., BROMINE PENTIFLUORIDE; CHLORINE TRIFLUORIDE). INCANDESCENT REACTION WITH PHOSPHORUS PENTACHLORIDE. WATER WILL REACT WITH MAGNESIUM OXIDE PRODUCING MAGNESIUM HYDROXIDE AND HEAT. THE MAGNESIUM SULFATE IS POTENTIALLY EXPLOSIVE WHEN REACTED WITH ETHOXYETHYNYL ALCOHOLS (I.E., 1-ETHOXY-3METHYL-1BUTYN- 3-OL).

HAZARDOUS DECOMPOSITION PRODUCTS: HEAT AND STEAM AND ABOVE 1100°C SOX.

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SECTION XI: TOXICOLOGICAL INFORMATION

CALCINED MAGNESITE, CAS #1309-48-4

TOXIC AND HAZARD REVIEW: LOW TOXICITY - A NUTRIENT AND/OR DIETARY SUPPLEMENT FOOD ADDITIVE. THERAP CAT: ANTACID. (SAX) AN EXPERIMENTAL TUMORIGEN. INHALATION OF FUME (NOT MGO DUST PARTICULAR) PRODUCED UPON DECOMPOSITION OF MAGNESIUM COMPOUNDS CAN PRODUCE A FEBRILE REACTION AND LEUKOCYTOSIS IN HUMANS.

TOXICITY DATA: IHL-HMN TCLO:400MG/M3; ITR-HAM TDLO:480 MG/KG/30W-I:ETA.

MAGNESIUM SULFATE, CAS #7487-88-9

TOXIC AND HAZARD REVIEW: (SAX) MODERATELY TOXIC BY INGESTION, INTRAPERITONEAL, AND SUBCUTANEOUS ROUTES. AN EXPERIMENTAL TERATOGEN.

TOXICITY DATA: IPR-RBT TDLO: 750MG/KG (17-21D PREG): TER; SCU-RBT LDLO: 1750MG/KG; ORL-MUS LDLO: 5000MG/KG; SUC-MUS LD50: 645MG/KG; IPR-DOG LDLO: 1200MG/KG; SUC-DOG LDLO: 1500MG/KG; ORL-RBT LDLO: 3000MG/KG.

QUARTZ, CAS #14808-60-7

TOXIC AND HAZARD REVIEW (SAX): EXPERIMENTAL POISON BY INRATRACHEAL AND INTRAVENOUS ROUTES. AN EXPERIMENTAL CARCINOGEN, TUMORIGEN, AND NEOPLASTIGEN. HUMAN SYSTEMIC EFFECTS BY INHALATION: COUGH, DYSPNEA, LIVER EFFECTS. LISTED BY IARC AS A "KNOWN HUMAN CARCINOGEN" GROUP 1. LISTED BY NTP.

TOXICITY DATA: NO LD50 IN RTECS. IHL-HMN: TCLO 16 MPPCF / 8 HRS / 17.9Y-I: PUL; IHH:HMN LCLO: 300 MG / M3 / 10 Y-I;LVR; OTHER SPECIES TOXICITY DATA (NIOSH RTECS): INV-RAT LDLO: 90MG/KG; ITR-RAT LDLO: 20MG/KG; IVN-MUS LDLO: 40MG/KG; INV-MUS: 20MG/KG.

SECTION XII: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL / CHEMICAL FATE INFORMATION: NO DATA AVAILABLE ON ANY ADVERSE EFFECTS OF THIS MATERIAL ON THE ENVIRONMENT.

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: THIS PRODUCT DOES NOT EXHIBIT ANY CHARACTERISTICS OF A HAZARDOUS WASTE. THE PRODUCT IS SUITABLE FOR LANDFILL DISPOSAL. FOLLOW ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS FOR SAFE DISPOSAL.

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SECTION XIV: TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION: NOT REGULATED BY DOT AS A HAZARDOUS MATERIAL. NO HAZARD CLASS, NO LABEL OR PLACARD REQUIRED, NO UN OR NA NUMBER ASSIGNED.

CANADIAN TDG HAZARD CLASS & PIN: NOT REGULATED.

SECTION XV: REGULATORY INFORMATION

SARA TITLE III: THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES REPORTABLE UNDER SECTIONS 302, 304 OR 313. SECTIONS 311 AND 312 DO APPLY. (ROUTINE REPORTING AND CHEMICAL INVENTORIES).

TSCA: ALL SUBSTANCES IN THIS PRODUCT ARE LISTED IN THE CHEMICAL SUBSTANCE INVENTORY OF THE TOXIC SUBSTANCES CONTROL ACT.

CERCLA HAZARDOUS SUBSTANCE LIST, RQ: NO

CALIFORNIA PROPOSITION 65: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE TOXINS.

SECTION XVI: OTHER INFORMATION

ACRONYMS AND REFERENCES USED IN PREPARATION OF SDS':

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

CAS#: CHEMICAL ABSTRACTS SERVICE.

CERCLA: COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION & LIABILITY ACT

EPCRA: EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986

HMIS™: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

MSHA: MINE SAFETY AND HEALTH ADMINISTRATION

MG/M3: MILLIGRAMS PER CUBIC METER

NIOSH: NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

NFPA: NATIONAL FIRE PROTECTION ASSOCIATION

NTP: NATIONAL TOXICOLOGY PROGRAM

OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PEL: PERMISSIBLE EXPOSURE LIMIT (OSHA)

REL: RECOMMENDED EXPOSURE LIMIT (OSHA)

SARA: SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT

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SECTION XVI: OTHER INFORMATION (CONT'D)

TITLE III: EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT

SECTION 302: EXTREMELY HAZARDOUS SUBSTANCES

SECTION 304: EMERGENCY RELEASE

SECTION 311: COMMUNITY RIGHT-TO-KNOW, MSDSS OR LIST OF CHEMICALS

SECTION 312: COMMUNITY RIGHT-TO-KNOW, INVENTORY AND LOCATION, (TIER I/II)

SECTION 313: TOXIC CHEMICALS, TOXIC CHEMICAL RELEASE REPORTING, FORM R

TLV: THRESHOLD LIMIT VALUES (ACGIH)

TWA: TIME WEIGHTED AVERAGE

29CFR1910.134: OSHA RESPIRATORY PROTECTION STANDARD

REFERENCES:

SAX, N. IRVING: DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, NINTH EDITION, VAN NOSTRAND REINHOLD CO., INC., 1996.

KIRK, R. AND OTHMER, D., ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY, THIRD EDITION, WILEY-INTERSCIENCE, NEW YORK, NY 1982.

CLANSKY, K.B., SUSPECT CHEMICALS SOURCEBOOK, 1992-2ND EDITION, ROYTECH PUBLICATIONS, BETHESDA, MARYLAND.

SAX, N. IRVING AND LEWIS, R.J. HAWLEY'S CONDENSED CHEMICAL DICTIONARY, ELEVENTH ED., VAN NOSTRAND REINHOLD CO., INC., NY

MANUFACTURERS / SUPPLIERS, MATERIAL SAFETY DATA SHEETS ON RAW MATERIALS USED
AMERICAN NATIONAL STANDARD FOR HAZARDOUS INDUSTRIAL CHEMICALS - MATERIAL SAFETY DATA SHEETS - PREPARATION, AMERICAN NATIONAL STANDARDS INSTITUTE, INC., 11 WEST 42ND ST, NEW YORK, NY 10036.

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