MSDS: A8096

ITEM: 5Z613 - DESICCANT REPLACEMENT

ORDER: 0002016479

LP NUMBER: U155877472-A

MATERIAL SAFETY DATA SHEET (MSDS) Associated Grainger Items 52610, 52611, 52612, 52613, 52769, 52770 Suitable extinguishing agents: CD2, extinguishing fowder or water spray. Fight larger fire with alcohol resistant foam. USB fire fighting measures that suit the environment. GRACE DAVISON MATERIAL SAFETY DATA SHEET PROTECTIVE ROLIPMENT: WEAR PROTECTIVE ROLIPMENT. 03/16/2004 ADDITIONAL INFORMATION: DISPOSE OF FIRE DEBRIS AND CONTAMINATED FIRE FIGHTING WATER IN ACCORDANCE WITH OFFICIAL REGULATIONS. REVIEWED ON: 03/16/2004 - 1 IDENTIFICATION OF SUBSTANCE - 6 ACCIDENTAL RELEASE MEASURES PERSON-RELATED SAFETY PRECAUTIONS: AVOID FORMATION OF DUST, WEAR PROTECTIVE CLOTHING. PRODUCT DETAILS: TRADE NAME: GRADE 47 (R\*) MEASURES FOR ENVIRONMENTAL PROTECTION: SWEEP UP AND CONTAINERIZE FOR RECLAMATION OR DISPOSAL. ARTICLE NUMBER: 5101542 MANUFACTURER/SUPPLIER: MEASURES FOR CLEANING/COLLECTING: VACUUMING OR WET SWEEPING MAY BE USED TO AVOID DUST DISPERSAL. DISPOSE OF THE COLLECTED MATERIAL ACCORDING TO REGULATIONS, GRACE DAVISON W.R. GRACE & CO.-CONN 7500 GRACE DR COLUMBIA, MD 21044 ADDITIONAL INFORMATION: SEE SECTION 7 FOR INFORMATION ON SAFE HANDLING. SEE SECTION 8 FOR INFORMATION ON PERSONAL PROTECTION EQUIPMENT. SEE SECTION 13 FOR DISPOSAL INFORMATION. INFORMATION DEPARTMENT: HEALTH AND SAFETY (9 AM TO 5 PM-RST): 1-410-531-4764 TRANSPORTATION EMERGENCY (24 HR): CHEMITREC: 1-800-424-9300 - 7 HANDLING AND STORAGE -OTHER EMERGENCIES (24 HR): 1-410-531-4000 HANDLING: - 2 DATA ON COMPONENTS INFORMATION FOR SAFE HANDLING: PREVENT FORMATION OF DUST. INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES: THE PRODUCT IS NOT FLAMMABLE. WHEN POURING PONDER INTO A CONTAINER OF FLAMMABLE LIQUID, GROUND BOTH CONTAINERS ELECTRICALLY TO PREVENT A STATIC ELECTRIC SPARK. CAS NO. & LIST OF COMPONENTS AMORPHOUS SILICON DIOXIDE, CHEMICAL PREPARED 7631-86-9 7646-79-9 COBALT CHLORIDE FURTHER INFORMATION ABOUT STORAGE CONDITIONS: KEEP RECEPTACLE TIGHTLY T, N R 49-22-42/43-50/53 ADDITIONAL INFORMATION: FOR THE WORDING OF THE COMPONENT RISK PHRASES REPER TO SECTION 16. CLASS ACCORDING TO REGULATION ON FLAMMABLE LIQUIDS: NONE APPLICABLE - 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION -- 3 HAZARDS IDENTIFICATION -COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE: HAZARD DESCRIPTION: T: TOXIC 7631-86-9 AMORPHOUS SILICON DIOXIDE, CHEMICAL PREPARED: INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT: THE PRODUCT HAS TO BE LABBLED DUE TO THE CALCULATION PROCEDURE OF THE GENERAL CLASSIFICATION GOLDELINE FOR PREPARATIONS OF THE EUROPEAN UNION" IN THE LATEST VALID VERSION. PEL: 80/(%SiO2) MG/MB OSHA TWA FOR AMORPHOUS SILICA REL: R 49: MAY CAUSE CANCER BY INHALATION. 6 MG/MB NIOSH TWA R 52/53: HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT TLV: 10\* 5\*\* MG/M3 ACGIH TWA CLASSIFICATION SYSTEM: THE CLASSIFICATION WAS MADE ACCORDING TO THE LATEST EDITIONS OF INTERNATIONAL SUBSTANCES LISTS, AND EXPANDED UPON FROM COMPANY AND \*TOTAL DUST \*\*RESPIRABLE FRACTION LITERATURE DATA. 7646-79-9 COBALT CHLORIDE: NFPA RATINGS (SCALE 0 - 4): HEALTH 2 FIRE 0 PEL: 0.1\* MG/M3 OSHA TWA REACTIVITY 0 MIS-RATINGS (SCALE 0 - 4) HEALTH 2\* \*FOR METAL DUST & FUME, AS CO EALTH REL: 0.05\* MG/M3 NIOSH TWA ñ EACTIVITY 0 - 4 FIRST AID MEASURES \*FOR METAL DUST & FUME, AS CO TLV: 0.02 MG/M3 ACGIH TWA AS Co IFTER INHALATION: SUPPLY FRESH AIR; CONSULT DOCTOR IN CASE OF COMPLAINTS. FTER SKIN CONTACT: ENERALLY THE PRODUCT DOES NOT IRRITATE THE SKIN. MEDIATELY RINSE WITH WATER. F SKIN IRRITATION OCCURS, CONSULT A DOCTOR. PERSONAL PROTECTIVE EQUIPMENT: GENERAL PROTECTIVE AND HYGIENIC MEASURES: THE USUAL PRECAUTIONARY MEASURES FOR HANDLING CHEMICALS SHOULD BE FOLLOWED. FTER EYE CONTACT:
MMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES,
LIFTING LOWER AND UPPER RYELIDS COCASIONALLY. IF SYMPTOMS COCUR, CONSULT
DOCTOR BREATHING EQUIPMENT: IF EXPOSURE LIMIT IS EXCEPTED, A SUITABLE RESPIRATORY PROTECTIVE DEVICE IS

FTER SWALLOWING: F LARGE ANOUNIS ARE SWALLOWED, WASH MOUTH OUT WITH WATER. GET MEDICAL ID IF IRRITATION OR SYMPTOMS OCCUR.

PROTECTION OF HANDS: PROTECTIVE GLOVES

RECOMMENDED.

THE GLOVE MATERIAL HAS TO BE IMPERMEABLE AND RESISTANT TO THE PRODUCT/THE SUBSTANCE/THE PREPARATION.

EYE PROTECTION: SAFETY GLASSES BODY PROTECTION: PROTECTIVE WORK CLOTHING PRODUCT: - 9 PHYSICAL AND CHEMICAL PROPERTIES WHATEVER CANNOT HE SAVED FOR RECOVERY OR RECYCLING SHOULD BE MANAGED IN AN WHATEVER CARNOT BE SAVED FOR RELOVERY OR REJIGITING SHOULD BE MANNED IN A APPROPHIATE AND APPROVED WASTE DISPOSAL FACILITY, PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OFTICMS. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS.DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. GENERAL INFORMATION: FORM: BEADS COLOR: BLUE ODOR: ODORLESS - 14 TRANSPORT INFORMATION -CHANGE IN CONDITION: MELTING POINT/MELTING RANGE: UNDETERMINED. TRANSPORT/ADDITIONAL INFORMATION: NOT REGULATED AS HAZARDOUS GOODS BY DOT, ADR, IMO, OR IATA. FLASH POINT: NOT APPLICABLE. AUTO IGNITING: PRODUCT IS NOT SELF-IGNITING. DANGER OF EXPLOSION: PRODUCT DOES NOT PRESENT AN EXPLOSION HAZARD. – 15 REGULATIONS -DENSITY: NOT DETERMINED. BULK DENSITY AT 20 DEG. C (68 DEG. F): 25 - 35 LBS/FT3 SARA: SOLUBILITY IN / MISCIBILITY WITH WATER: INSOLUBLE. SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES): DH-VALUE AT 20 DEG. C (68 DEG. F): 4.5 - 6.5 SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS): - 10 STABILITY AND REACTIVITY COBALT CHLORIDE TSCA (TOXIC SUBSTANCES CONTROL ACT): ALL INCREDIENTS ARE LISTED. THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED: NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS. PROPOSITION 65: CHEMICALS KNOWN TO CAUSE CANCER: NONE OF THE INGREDIENTS ARE LISTED. DANGEROUS REACTIONS: REACTS WITH HYDROGEN FLUORIDE CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY: NOME OF THE INSPEDIENTS ARE LISTED. DANGEROUS PRODUCTS OF DECOMPOSITION: NO DANGEROUS DECOMPOSITION PRODUCTS CARCINOGENICITY CATEGORIES: ------- 11 TOXICOLOGY IMPORTATION -EPA (ENVIRONMENTAL PROTECTION ACENCY): NONE OF THE INCREDIENTS ARE LISTED. LARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER): ACUTE TOXICITY: COBALT CHLORIDE LD/LC50 VALUES THAT ARE RELEVANT FOR CLASSIFICATION: NTP (NATIONAL TOXICOLOGY PROGRAM): NONE OF THE INGREDIENTS ARE LISTED. 7631-86-9 AMORPHOUS SILICON DIOXIDE, CHEMICAL PREPARED: TLV (THRESHOLD LIMIT VALUE ESTABLISHED BY ACGIH): ORAL LD50: 10000 MG/KG (RAT) 7646-79-9 COBALT CHLORIDE DERMAL LDS0 MAK (GERMAN MAXIMUM WORKPLACE CONCENTRATION): >5000 MG/KG (RABBIT) OECD 402 7631-86-9 AMORPHOUS SILICON DIOXIDE, CHEMICAL PREPARED NIOSH-CA (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH): NONE OF THE INCREDIENTS ARE LISTED. INHALATIVE LCSO: >0.139 MG/L/14H (RAT) 7646-79-9 COBALT CHLORIDE: OSHA-CA (OCCUPATIONAL SAFETY & HEALITH ADMINISTRATION): ORAL LD50: 80 MG/KG (RAT) PRIMARY IRRITANT EFFECT: CANADIAN DSL: ALL INCREDIENTS ARE LISTED. ON THE SKIN: MAY CAUSE IRRITATION WITH DRYNESS AND ABRASION. CANADIAN NDSL: NONE OF THE INCREDIENTS ARE LISTED. IN THE EYE: MAY CAUSE ABRASION, REDNESS AND PAIN. JAPAN ENCS: ALL INCREDIENTS ARE LISTED. SENSITIZATION: NO SENSITIZING EFFECTS KNOWN. KOREA ECL: ALL INCREDIENTS ARE LISTED. SUBACUTE TO CHRONIC TOXICITY: PHILIPPINES PICCS: ALL INCREDIENTS ARE LISTED. AMORPHOUS SILICON DIOXIDE, CHEMICALLY PREPARED:
NO NEGATIVE EFFECTS WERE DEHERMINED DURING TESTS FOR CHRONIC ORAL TOXICITY,
CARCINGENICITY, TERATOGENICITY AND FERTILITY. NO INTERPRESIBLE CHANGES AND
NO SYMPTOMS OF SILICOSIS WERE DETERMINED DURING TESTS FOR CHRONIC
INHALATIVE TOXICITY. AUSTRALIA AICS: ALL INCREDIENTS ARE LISTED. EUROPEAN EINECS: ALL INCREDIENTS ARE LISTED. PRODUCT RELATED HAZARD INFORMATION: DESERVE THE GENERAL SAFETY REGULATIONS WHEN HANDLING CHEMICALS.
THE PRODUCT IS NOT SUBJECT TO IDENTIFICATION REGULATIONS ACCORDING TO DIRECTIVES ON HAZARDOUS MATERIALS. ADDITIONAL TOXICOLOGICAL INFORMATION:
THE PRODUCT IS NOT SUBJECT TO CLASSIFICATION ACCORDING TO INTERNALLY
APPROVED CALCULATION METHODS FOR PREPARATIONS:
WHEN USED AND HANDLED ACCORDING TO SPECIFICATIONS, THE PRODUCT DOES NOT
HAVE ANY HARMSTLL EFFECTS ACCORDING TO OUR EXPERIENCE AND THE INFORMATION HAZARD SYMBOLS: HAZARD-DETERMINING COMPONENTS OF LABELING: COBALT CHLORIDE — 12 ECOLOGY INFORMATION RISK PHRASES: 49: MAY CAUSE CANCER BY INHALATION.  $^{22.3}$  Harmful, to aquatic organisms, may cause long-term adverse effects in the aquatic environment ECONOXICAL EFFECTS: ACUATIC TOXICITY: SAFETY PHRASES: 53: AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. FISH TOXICITY: 7631-86-9 AMORPHOUS SILICON DIOXIDE, CHEMICAL PREPARED: — 16 OTHER IMPORMATION -LC50 (96 H): >10000 MG/L (BRACHYDANIO RERIO)
OECD 202 THIS INFORMATION IS BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, THIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP. WATER FLEA TOXICITY: 7631-86-9 AMORPHOUS SILICON DIOXIDE, CHEMICAL PREPARED: COMPONENT HAZARD SYMBOLS: EC50 (24 H) T: TOXIC N: DANGEROUS FOR THE ENVIRONMENT >1000 MG/L (DAPHNIA MACNA) OECD 202 COMPONENT RISK PHRASES 22: HARMFUL IF SWALLOWED. GENERAL NOTES: GENERALLY NOT HAZARDOUS FOR WATER 42/43: MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT. - 13 DISPOSAL CONSIDERATIONS 49: MAY CAUSE CANCER BY INHALATION.