

M A T E R I A L S A F E T Y D A T A S H E E T

CARRARA WORM TEXTURE

PRODUCT NAME: CARRARA WORM TEXTURE
GLOBAL PRODUCT CODE: CAR-WT

HMIS CODES: H F R P
2*0 0 I

===== SECTION 1 - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: GLOBAL COATINGS INC.
ADDRESS : P.O. BOX 340485
AUSTIN, TX 78734
INFORMATION PHONE : (512)267-5888 EMERGENCY PHONE : (512)267-5888
DATE REVISED : AUGUST 2003

===== SECTION 2 - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS CAS NUMBER MM HG @ TEMP WEIGHT PERCENT

-
CRYSTALLINE SILICA 14808-60-7 N/A N/A 32.
OSHA PEL: EXPOSURE TO AIRBORNE CRYSTALLINE SILICA SHALL NOT EXCEED AN 8
HOUR TIME WEIGHTED AVERAGE LIMIT AS STATED IN 29CFR 1910.1000, TABLE Z-1-A
AIR CONTAMINANTS, SPECIFICALLY; SILICA, CRYSTALLINE QUARTZ (RESPIRABLE)
0.1 MG/M3. ACGIH TLV-TWA: 0.1 MG/M3. NIOSH MAXIMUM PERMISSABLE CONC. 0.05

M
G/M3, 10 HR. WORKDAY, 40 HR. WEEK.
ACRYLIC POLYMER (CONTAINS AQUA AMMONIA, CAS #1336-21-6 AT 0.2% MAX.)9003-01-417

THE FOLLOWING EXPOSURE GUIDELINES ARE FOR THE AMMONIA CONTAINED IN THIS
RAW MATERIAL AT 0.2% MAX. MANUFACTURER OF THIS RAW MATERIAL SUGGESTS: TWA-25PM.
STEL-35 PPM.
ACGIH: TLV-25 PPM. STEL-35 PPM.
OSHA: TWA-NONE ESTABLISHED. STEL-35PPM.

CRYSTALLINE SILICA 14808-60-7 N/A N/A 12.8
OSHA PEL: EXPOSURE TO AIRBORNE CRYSTALLINE SILICA SHALL NOT EXCEED AN 8
HOUR TIME WEIGHTED AVERAGE LIMIT AS STATED IN 29CFR 1910.1000, TABLE Z-1-A
AIR CONTAMINANTS, SPECIFICALLY; SILICA, CRYSTALLINE QUARTZ (RESPIRABLE)
0.1 MG/M3. ACGIH TLV-TWA: 0.1 MG/M3. NIOSH MAXIMUM PERMISSABLE CONC. 0.05

M
G/M3, 10 HR. WORKDAY, 40 HR. WEEK.
DOLOMITE 16389-88-1 NA NA 12.4
CRYSTALLINE SILICA AS QUARTZ, CAS#14808-60-7, <1%, ACGIH TLV-0.1MG/M3 TWA,
OSHA PEL-0.1MG/M3 TWA.
DOLOMITE, CAS#16389-88-1,99%, ACGIH TLV-N/A, OSHA PEL-N/A

CALCIUM CARBONATE 471-34-1 N/A N/A 10
OSHA PEL-15MG/M3, TOTAL DUST, 5MG/M3, RESPIRABLE DUST.
ACGIH TLV-10 MG/M3, TOTAL DUST CONTAINING NO ASBESTOS AND <1% FREE SILICA.
IF SILICA LEVELS ABOVE 1.0% ARE PRESENT, THE TLV VALUE IS 0.1 MG OF
RESPIRABLE SILICA PER CU. METER FOR BOTH OSHA PEL AND ACGIH TLV.

WATER 7732-18-5 UNK UNK 7
NO OEL'S ESTABLISHED.

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CRYSTALLINE SILICA

14808-60-7 N/A N/A 6.4

OSHA PEL: EXPOSURE TO AIRBORNE CRYSTALLINE SILICA SHALL NOT EXCEED AN 8 HOUR TIME WEIGHTED AVERAGE LIMIT AS STATED IN 29CFR 1910.1000, TABLE Z-1-A AIR CONTAMINANTS, SPECIFICALLY; SILICA, CRYSTALLINE QUARTZ (RESPIRABLE) 0.1 MG/M3. ACGIH TLV-TWA: 0.1 MG/M3. NIOSH MAXIMUM PERMISSABLE CONC. 0.05

M G/M3, 10 HR. WORKDAY, 40 HR. WEEK.

TITANIUM DIOXIDE

13463-67-7 N/A N/A 2

TITANIUM DIOXIDE, 86-97%, CAS#13463-67-7, ACGIH TLV-10MG/M3, TOTAL DUST TWA, OSHA PEL-15MG/M3, TOTAL DUST, 8 HR TWA, AEL(ACCEPTABLE EXPOSURE

LIMIT) OF 10MG/M3, TOTAL DUST 8 HR TWA, 5MG/M3 RESPIRABLE DUST 8 HR TWA. (AEL IS THE EXPOSURE LIMIT RECOMMENDED BY THE MANUFACTURER OF THIS CHEMICAL). ALUMINUM HYDROXIDE, CAS#21645-51-2, 1-5%, NO EXPOSURE LIMITS ESTABLISHED.

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

#Indicates carcinogenic chemical.

THIS MSDS MAY BE USED FOR OTHER COLORS AND FOR OTHER GRADES AND TEXTURES OF THIS

PRODUCT.*UC/FM:UT-CORTINA-TB*

=====**SECTION 3 HAZARDS IDENTIFICATAION**=====

POTENTIAL HEALTH EFFECTS

EYES:

CONTACT WITH VAPOR AND/OR SPRAY MIST MAY RESULT IN IRRITATION, CONTACT WITH LIQUID MAY RESULT IN SEVERE IRRITATION

SKIN:

SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION

INGESTION:

MAY CAUSE ABDOMINAL PAIN, NAUSEA AND VOMITING.

INHALATION:

VAPOR OR SPRAY MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS.

=====**SECTION 4 FIRST AID MEASURES**=====

EYES:

IMMEDIATELY FLUSH EYES WITH CLEAN, LUKEWARM WATER FOR 15 MINUTES WHILE LIFTING EYELIDS. REFER TO PHYSICIAN OR OPHTHALMOLOGIST FOR IMMEDIATE FOLLOW-UP.

SKIN:

IMMEDIATELY WASH SKIN WITH LOTS OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES AND WASH BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION:

DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT A PHYSICIAN IMMEDIATELY

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INHALATION:

REMOVE FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIAN:

NONE FOR THIS MATERIAL

=====SECTION 5 FIRE FIGHTING

MEASURES=====

FLAMMABLE PROPERTIES:

FLASH POINT: N/A

LOWER FLAMMABLE LIMITS: N/A

UPPER FLAMMABLE LIMIT: N/A

AUTO IGNITION TEMPERATURE: NOT AVAILABLE

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG OR SPRAY, AS APPROPRIATE

FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER ANY ENCLOSED OR CONFINED SPACE WITHOUT FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS (PRESSURE-DEMAND MSHA/NIOSH APPROVED OR EQUIVALENT) TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF COMBUSTION PRODUCTS AND OXYGEN DEFICIENCY.

=====SECTION 6 ACCIDENTAL RELEASE MEASURES=====

SMALL SPILL:

STOP SPILL AT SOURCE. PICK UP WITH MOP AND SHOVEL. RINSE WELL WITH WATER.

LARGE SPILL:

USE SAME PROCEDURE AS SMALL SPILL.

=====SECTION 7 HANDLING AND STORAGE=====

HANDLING & STORAGE:

KEEP FROM FREEZING. KEEP CONTAINER COOL AND DRY. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION. KEEP PRODUCT CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. AVOID SUBJECTING THIS PRODUCT TO EXTREME TEMPERATURE VARIATIONS.

OTHER PRECAUTIONS:

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

=====SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION=====

ENGINEERING CONTROLS/PERSONAL PROTECTION:

TO AVOID ADVERSE HEALTH AFFECTS SUCH AS LIGHT HEADEDNESS OR NAUSEA TAKE THE FOLLOWING PRECAUTIONS:DURING MIXING AND APPLICATION OPERATIONS APPLY WITH WIND OR FAN CARRYING VAPORS AWAY FROM YOU.IF THIS IS NOT POSSIBLE, USE RESPIRATORY PROTECTION.

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RESPIRATORY PROTECTION:

A RESPIRATORY PROTECTION PROGRAM MEETING OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. NONE REQUIRED IF AIRBORNE CONCENTRATIONS ARE MAINTAINED BELOW THE EXPOSURE LIMIT LISTED IN 'EXPOSURE LIMIT INFORMATION'. FOR AIRBORNE CONCENTRATIONS UP TO 10 TIMES THE EXPOSURE LIMIT , WEAR A NIOSH APPROVED (OR EQUIVALENT) HALF-MASK, AIR-PURIFYING RESPIRATOR. AIR-PURIFYING RESPIRATORS SHOULD BE EQUIPPED WITH NIOSH APPROVED (OR EQUIVALENT) CARTRIDGES FOR PROTECTION AGAINST AMMONIA AND METHYLAMINE AND FILTERS FOR PROTECTION AGAINST DUSTS AND MISTS.

SKIN PROTECTION:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION. NOTE THAT PVA DEGRADES IN WATER.

EYE PROTECTION:

CHEMICAL GOGGLES, UNLESS A FULL FACE PIECE RESPIRATOR IS USED. DO NOT WEAR CONTACT LENSES AS THEY MAY CONTRIBUTE TO THE SEVERITY OF INJURY TO THE EYE. EYE PROTECTION WORN MUST BE COMPATIBLE WITH RESPIRATORY PROTECTION SYSTEM EMPLOYED.

===== SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES=====

BOILING RANGE: 212F/100C - 2500-3000C	SPECIFIC GRAVITY (H2O=1): 1.935
VAPOR DENSITY: LIGHTER THAN AIR	EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 0.24 lb/g1	COATING V.O.C.: 29 g/l

MATERIAL V.O.C.: 0.17 lb/g1	MATERIAL V.O.C.: 20 g/l
SOLUBILITY IN WATER: SOLUBLE	
APPEARANCE: HIGHLY THIXOTROPIC LIQUID.	
ODOR: FAINT AMMONIACAL ODOR.	

===== SECTION 10 STABILITY & REACTIVITY DATA=====

STABILITY:

STABLE

CONDITIONS TO AVOID

EXTREMELY HOT OR COLD TEMPERATURES

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID STRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS:

THERMAL DECOMPOSITION MAY YIELD ACRYLIC MONOMER, CARBON MONOXIDE AND CARBON DIOXIDE. UNIDENTIFIED ORGANIC COMPOUNDS IN FUMES AND SMOKE MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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=====**SECTION 11 TOXICOLOGICAL INFORMATION**=====

EYE:

EYE IRRITATION: SLIGHT TO MODERATE IRRITATION.

SKIN:

SKIN IRRITATION-DUE TO THE HIGH TENDANCY TO ABSORB MOISTURE (AND OILS), MANY INDIVIDUALS EXPERIENCE EXCESSIVELY DRY, CHAPPED SKIN WITH PROLONGED OR REPEATED EXPOSURE.

INGESTION:

SILICAS ARE ESSENTIALLY NON TOXIC WHEN INGESTED.

INHALATION:

IT IS POSSIBLE TO BREATHE VAPORS EMANATING FROM THIS MATERIAL UNDER CERTAIN CONDITIONS OF HANDLING AND USE. BREATHING SMALL AMOUNTS OF VAPOR DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS USUALLY OCCUR AT AIR CONCENTRATIONS HIGHER THEN THE RECOMMENDED EXPOSURE LIMITS.

SUBCHRONIC:

SIGNS AND SYMPTOMS OF EXPOSURE TO THIS MATERIAL THROUGH BREATHING, SWALLOWING, AND/OR PASSAGE OF THE MATERIAL THROUGH THE SKIN MAY INCLUDE: MOUTH AND THROAT IRRITATION, STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS),

CHRONIC/CARCINOGENICITY:

CONTAINS CRYSTALLINE SILICA. OVEREXPOSURE TO RESPIRABLE CRYSTALLINE SILICA DUST CAN CAUSE SILICOSIS, A FORM OF PROGRESSIVE PULMONARY FIBROSIS. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS EVALUATED IN VOLUME 68, MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENICITY RISK OF CHEMICALS TO HUMANS, CRYSTALLINE SILICA IN THE FORM OF QUARTZ AND AMORPHOUS SILICA (1997), THAT THERE IS "SUFFICIENT EVIDENCE FOR THE CARCINOGENICITY OF INHALED CRYSTALLINE SILICA IN THE FORM OF QUARTZ OR CRISTOBALITE FROM OCCUPATIONAL EXPOSURES HAS BEEN CLASSIFIED AS A GROUP 1 CARCINOGEN BY THE IARC.

TERATOLOGY:

NO DATA

REPRODUCTION:

NO DATA.

MUTAGENICITY:

COLLECTIVE DATA INDICATE NON-MUTAGENIC.

=====**SECTION 12 ECOLOGICAL INFORMATION**=====

ECOTOXICOLOGICAL INFORMATION:

NO DATA AVAILABLE

CHEMICAL FATE INFORMATION:

NO DATA.

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SECTION 13 DISPOSAL CONSIDERATIONS:=====

INSTRUCTIONS:

WHATEVER CANNOT BE SAVED FOR REUSE SHOULD BE TRANSFERRED TO AN APPROPRIATE AND APPROVED WASTE DISPOSAL FACILITY. CONSULT APPROPRIATE NATIONAL, STATE AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES.

=====SECTION 14 TRANSPORT INFORMATION=====

SHIPPING INFORMATION:

DOT INFORMATION - 49 CFR 172.101

DOT DESCRIPTION: NOT REGULATED

=====SECTION 15 REGULATORY INFORMATION=====

(NOT MEANT TO BE ALL INCLUSIVE-SELECTED REGULATIONS REPRESENTED)

US REGULATIONS:

STATUS OF SUBSTANCES LISTS:

THE CONCENTRATIONS SHOWN IN SECTION II ARE MAXIMUM CEILING LEVELS (WEIGHT %) TO BE USED FOR CALCULATIONS FOR REGULATIONS.

FEDERAL EPA: COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION & LIABILITY ACT OF 1980 (CERCLA) REQUIRES NOTIFICATION OF THE NATIONAL RESPONSE CENTER OF RELEASE OF QUANTITIES OF HAZARDOUS SUBSTANCES EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITIES (RQ'S) IN 40 CFR 302.4.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

AMMONIA CAS#001336-21-6 RQ 1000 #

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986(SARA) TITLE III REQUIRES EMERGENCY PLANNING BASED ON THE THRESHOLD QUANTITIES (TPQ'S) AND RELEASE REPORTING BASED ON REPORTABLE QUANTITIES (RQ'S) IN 40 CFR 355 (USED FOR SARA 302, 304, 311, AND 312)

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

NONE KNOWN

REQUIRES SUBMISSION OF ANNUAL REPORTS OF RELEASE OF TOXIC CHEMICALS THAT APPEAR IN 40 CFR 372(FOR SARA 313). THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

COMPONENTS THAT COULD REQUIRE REPORTING UNDER THE STATUTE: SEE SECTION II

THE COMPONENTS OF THIS PRODUCT ARE LISTED OR EXCLUDED FROM LISTING ON THE

US TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY.

THE REMAINING PERCENTAGE OF UNSPECIFIED INGREDIENTS, IF ANY, ARE NOT CONTAINED IN ABOVE DE MINIMIS CONCENTRATIONS AND/OR ARE BELIEVED TO BE NON-HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), AND MAY CONSIST OF PIGMENTS, FILLERS, DEFOAMERS, WETTING AGENTS, RESINS, DRYERS, ANTI-BACTERIAL AGENTS, WATER AND/OR SOLVENTS IN VARYING CONCENTRATIONS.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:

SUBDIVISION A OF DIVISION 2 OF CLASS D POISONOUS AND INFECTIOUS MATERIALS

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All of the components of this product are exempt or listed on the DSL.SEE SECTION II FOR COMPOSITION/INFORMATION ON INGREDIENTS

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EINECS:

ALL OF THE COMPONENTS OF THIS PRODUCT ARE LISTED IN THE EINECS INVENTORY OR ARE EXEMPT FROM NOTIFICATION REQUIREMENTS.

CRYSTALLINE SILICA	CAS#14808-60-7	EINECS#:231-545-4
CALCIUM CARBONATE	CAS#471-34-1	EINECS#:207-439-9
AMMONIUM HYDROXIDE	CAS#1336-21-6	EINECS#:215-647-6

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986. THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S) KNOWN TO THE STATE OF CALIFORNIA

A: CAUSE CANCER:

CRYSTALLINE SILICA, CAS#14808-60-7 (AIRBORNE PARTICLES OF RESPIRABLE SIZE) IN ADDITION TO THE ABOVE NAMED CHEMICALS, IF ANY, THIS PRODUCT MAY CONTAIN TRACE

AMOUNTS OF SOME CHEMICALS CONSIDERED BY THE STATE OF CALIFORNIA TO BE CARCINOGENS OR REPRODUCTIVE TOXICANTS.

B: CAUSE REPRODUCTIVE HARM:

NONE KNOWN

PENNSYLVANIA:

CRYSTALLINE SILICA	CAS#14808-60-7	CODE:--
AMMONIA	CAS#1336-21-6	CODE:E

CODES IDENTIFY CHEMICALS AS:

--(Basic Hazard)

E (ENVIROMENTAL HAZARD)

* ANY COMPOUND OF THIS CHEMICAL IS ALSO AN ENVIRONMENTAL HAZARD
S (SPECIAL HAZARD)

NEW JERSEY:

NONE KNOWN

OTHER:

AMMONIA, CAS# 1336-21-6
MASSACHUTESSES: SUBS CODES F8
NEW YORK RQ--AIR 1000, RQ--LAND 100

SILICA, CAS 014808-60-7

FLORIDA:TOXIC

MASSACHUTESSES: SUBS CODES 1,2,4,*E*C*F5

MINESOTA HAZ SUBSTANCE:

CODES: A

HAZARDS: --

CARNINOGEN? NO

WASHINGTON AIR CONTAMINANT:

TWA(ppm) UK, TWA(mg)0.1, STEL(ppm)UK, STEL(mg)UK, CEILING(ppm)UK

CEILING(mg)UK, SKIN:UK

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CAS# 471-34-1 CARBONIC ACID CALCIUM SALT
MINNESOTA HAZ SUBSTANCE:

CODES: A
HAZARDS: --
CARNINOGEN? NO

CAS# 1317-65-3 CALCIUM CARBONATE
MASSACHUSETTES: SUBS CODES 4
MINNESOTA HAZ SUBSTANCE:

CODES: A
HAZARDS: --
CARNINOGEN? NO

WASHINGTON AIR CONTAMINANT: ppm mg/Cubic Meter
TWA UNK 10
STEL UNK UNK
CEILING UNK UNK
SKIN:UNK

=====SECTION 16 OTHER INFORMATION=====

THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. USERS SHOULD CONSIDER THESE DATA ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM & DETERMINE THE SUITABILITY & COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE & DISPOSAL OF THESE MATERIALS & THE SAFETY & HEALTH OF EMPLOYEES & CUSTOMERS.

STATE CODES DEFINED:

- MA: Codes
- 1 IARC(Int.Agency for Research on Cancer)
- 2 OSHA 29 CFR 1910.1000, sub part Z
- 3 NTP National Toxicology Program
- 4 ACGIH American Conference of Gov.Ind. Hygienists (TLV)
- 5 NFPA49 HAZ CHEM
- 6 NFPA325M FIRE HAZARDS
- 7 CAG Carcinogen Assessment Group
- 8 EPA Environmental Protection Agency pesticides (40 CFR 162.30)
- 9 NCI National Cancer Institutes substances

Hazard Designations

- *C* - Carcinogen Poses a risk of cancer in humans.
- *N* - Neurotoxin Poses a risk of neurotoxic effects in humans.
- *M* - Mutagen Poses a risk of mutagenesis in humans.
- *E* - Extraordinarily Hazardous Substances that have a low lethal dose
(LD(50)) or are designated carcinogens.
- *T1* - Teratogen Sufficient evidence of teratogenic risk in humans.
- *T2* - Teratogen Limited evidence of teratogenic risk in humans.

Footnote Designations

- F1 - Elemental Metals and Alloys
- F2 - Asbestos
- F3 - Asphalt
- F4 - Coal Tar Pitch Volatile

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- F5 - Dust Producing Materials
- F6 - EPA Extremely Haz. Substances
- F7 - Volatile Organic Substances (VOC's)
- F8 - Cercla Hazardous Substances
- F9 - Toxic Chemical Release Substances

MI: Codes

-- REQUIRES FURTHER REPORTING

MN: Codes

- A American Conference of Governmental Industrial Hygienists (ACGIH)
- I American Industrial Hygiene Association (AIHA)
- N National Institute for Occupational Safety and Health (NIOSH)
- O Occupational Safety and Health Administration (OSHA)
- R International Agency for Research on Cancer (IARC)
- S OSHA proposed standards.
- T National Toxicology Program (NTP)

Hazard Designations

T: Listed as carcinogen or potential by IARC or NTP

F: Not listed as carcinogen or potential carcinogen

asphyxiant: Asphyxiant

dust: Airborne particulate exposure hazard

fume: Small solid particles formed by the condensation of vapors of solid materials

skin: Potential hazard from absorption through skin contact

PA:CODES IDENTIFY CHEMICALS AS:

--(Basic Hazard)

E (ENVIROMENTAL HAZARD)

* ANY COMPOUND OF THIS CHEMICAL IS ALSO AN ENVIRONMENTAL HAZARD

S (SPECIAL HAZARD)