

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

PRODUCT NAME: CARRARA MicroSEAL (Clear Coat)

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

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

REPORTABLE COMPONENTS	CAS NUMBER	MM	HG	@ TEMP	WEIGHT PERCENT--
WATER NO OEL'S ESTABLISHED.	7732-18-5		UNK	UNK	57
ACRYLIC POLYMER FOR AQUA AMMONIA, CAS#1336-21-6, 0.1% MAXIMUM, MANUFACTURER'S TWA-25PPM AS AMMONIA, STEL-35PPM AS AMMONIA. OSHA STEL-35PPM AS AMMONIA. ACGIH TWA-25PPM AS AMMONIA, STEL-35PPM AS AMMONIA. NO OTHER EXPOSURE LIMIT HAVE BEEN ESTABLISHED.		MIXTURE	17	68F/20C	39
DIPROPYLENE GLYCOL N-BUTYL ETHER, >98%. NO EXPOSURE GUIDELINES HAVE BEEN ESTABLISHED FOR THIS RAW MATERIAL.	29911-28-2		0.04	68F/20C	3

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

THIS MSDS MAY BE USED FOR OTHER COLORS AND CONTAINER SIZES OF THIS PRODUCT

=====**SECTION 3 HAZARDS IDENTIFICATION**=====

POTENTIAL HEALTH EFFECTS

EYES:

MAY CAUSE SLIGHT/MODERATE IRRITATION TO THE EYE

SKIN:

IRRITATING TO THE SKIN

INGESTION:

MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, DIZZINESS AND CENTRAL NERVOUS SYSTEM DEPRESSION.

INHALATION:

VAPOR OR SPRAY MIST CAN CAUSE HEADACHE, NAUSEA, VOMITING 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. CONSULT A PHYSICIAN OR OPHTHALMOLOGIST IMMEDIATELY.

SKIN:

IMMEDIATELY WASH SKIN WITH LOTS OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES AND WASH BEFORE REUSE. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

INGESTION:

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

INHALATION:

REMOVE FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF SYMPTOMS PERSIST CONSULT A PHYSICIAN IMMEDIATELY.

NOTE TO PHYSICIAN:

NONE FOR THIS MATERIAL

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=====**SECTION 5 FIRE FIGHTING**=====

MEASURES=====

FLAMMABLE PROPERTIES:

FLASH POINT: OVER RIDE

LOWER FLAMMABLE LIMITS: 0.6

UPPER FLAMMABLE LIMIT: 20.4

AUTO IGNITION TEMPERATURE: NOT AVAILABLE

EXTINGUISHING MEDIA:

CARBON DIOXIDE, DRY CHEMICAL, FOAM OR WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE 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. USE WATER SPRAY TO COOL FIRE EXPOSED STRUCTURES AND TO COOL FIRE EXPOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE RUPTURE OF CONTAINER.

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

SMALL SPILL:

DIKE AND ABSORB WITH INERT MATERIAL SUCH AS SAND AND REMOVE ALL LIQUID WITH THE USE OF A VACUUM SYSTEM. IF UNABLE TO REMOVE AS A LIQUID, THEN BEGIN TO ABSORB WITH SAND, SAW DUST OR COMMERCIAL ABSORBANT, AND SCOOP UP AND PLACE IN CONTAINERS FOR PROPER DISPOSAL. KEEP SPILLS AND CLEANING RUNOFF OUT OF THE MUNICIPAL SEWERS AND OPEN BODIES OF WATER. DECONTAMINATE ALL CLOTHING AND THE SPILL AREA WITH A DETERGENT AND LARGE AMOUNTS OF WATER.

LARGE SPILL:

WEAR SKIN, EYE & RESPIRATORY PROTECTION DURING CLEAN-UP. EVACUATE AREA OF ALL NON-ESSENTIAL PERSONNEL. VENTILATE SPILL AREA. DIKE, AND CONTAIN AND/OR ABSORB WITH INERT MATERIAL (SAND, EARTH OR OTHER SUITABLE NON-COMBUSTIBLE MATERIAL) TO PREVENT ENTRY INTO STORMDRAINS, SEWERS AND OTHER UNAUTHORIZED TREATMENT/DRAINAGE SYSTEMS AND NATURAL WATERWAYS. SCOOP UP AND PLACE IN APPROVED CONTAINERS FOR PROPER DISPOSAL. COVER WITH LID. IF SPILL OCCURS NEAR AIR INLETS OR INSIDE, TURN OFF HEATING OR AIR-CONDITIONING EQUIPMENT TO PREVENT CONTAMINATING BUILDING.

=====**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:

AVOID SKIN OR EYE CONTACT. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS AND MISTS. IF SPILLED ON CLOTHING, LAUNDRER BEFORE REUSE. DO NOT TAKE INTERNALLY. USE ONLY IN A WELL VENTILATED AREA. KEEP OUT OF THE REACH OF CHILDREN.

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

ENGINEERING CONTROLS/PERSONAL PROTECTION:

IN OUTSIDE SPRAY, MIXING AND ROLLING APPLICATIONS SITUATE WORKERS UPWIND OF OPERATION & PROVIDE AIRFLOW IN A DOWNWIND DIRECTION SO AS TO CARRY FUMES AND RESIDUAL SPRAY AWAY FROM WORKERS.

LOCAL EXHAUST VENTILATION RECOMMENDED IF GENERATING VAPOR, DUST OR MIST. TURN OFF HEATING AND/OR AIR CONDITIONING EQUIPMENT TO PREVENT CONTAMINATING BUILDING. IF EXHAUST VENTILATION IS NOT ADEQUATE, USE MSHA OR NIOSH APPROVED RESPIRATOR.REFER TO OSHA STANDARD 29 CFR 1910.94 FOR GUIDELINES.

USE EXPLOSION-PROOF LOCAL EXHAUST VENTILATION CAPABLE OF MAINTAINING EMISSIONS AT THE POINT OF USE BELOW THE PEL OR TLV OR OTHER EXPOSURE GUIDELINES, AS APPROPRIATE. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. EXPLOSION-PROOF MECHANICAL EXHAUST VENTILATION, WITH VOLUME AND PATTERN CAPABLE OF MAINTAINING A FRESH AIR SUPPLY, MAY BE NECESSARY IN CONFINED SPACES. REFER TO OSHA STANDARD 29 CFR 1910.94 FOR GUIDELINES. TURN OFF HEATING AND/OR AIR CONDITIONING EQUIPMENT TO PREVENT CONTAMINATING BUILDING.

RESPIRATORY PROTECTION:

FOR RESPIRATORY PROTECTION WITHIN CONFINED AREAS AND FOR CONCENTRATIONS UP TO 10 TIMES THE EXPOSURE LIMIT, USE AN APPROVED AIR-PURIFYING RESPIRATOR EQUIPPED WITH AN

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AMMONIA/METHYLAMINE CARTRIDGE(S).

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. IF SPLASHING MAY OCCUR OR DURING SPRAY OPERATIONS WEAR A FACE SHIELD, 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 FROM CONTACT WITH LIQUID AND SPRAY MIST.

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

BOILING RANGE: 212F/100C - 446F/230C **SPECIFIC GRAVITY (H2O=1):** 1.0184
VAPOR DENSITY: HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN

ETHER

COATING V.O.C.: 1.31 lb/gl **COATING V.O.C.:** 157 g/l
MATERIAL V.O.C.: 0.29 lb/gl **MATERIAL V.O.C.:** 34 g/l
SOLUBILITY IN WATER: SOLUBLE **APPEARANCE:** PIGMENTED, VISCOUS.
ODOR: AMMONIA ODOR

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

STABILITY:

STABLE

CONDITIONS TO AVOID

EXTREMELY HOT OR COLD TEMPERATURES

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID CONTACT WITH STRONG OXIDIZING AGENTS, STRONG ALKALIES.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

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

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

EYE:

AMMONIA CAS# 1336-21-6: Draize test, rabbit, eye: 250 ug Severe

SKIN:

NO ANIMAL DATA AVAILABLE

INGESTION:

AMMONIA CAS# 1336-21-6:LD50 (ORAL-RAT): 350 MG/KG. ALTHOUGH HUMAN LETHAL DOSE LIMIT HAS NOT BEEN ESTABLISHED, ANY AMOUNT CAN BE DANGEROUS. AS LITTLE AS 1 TEASPOON (5ML) OF 28% NH4OH SOLUTION HAS BEEN RECORDED AS FATAL

INHALATION:

AMMONIA CAS# 1336-21-6: rat LC50: 2000 ppm/4-hr
2500-6500PPM: DANGEROUS FOR AS LITTLE AS 30 MINUTES. 5000-10,000PPM: RAPIDLY FATAL FOR SHORT EXPOSURES.

SUBCHRONIC:

NO ANIMAL DATA AVAILABLE

CHRONIC/CARCINOGENICITY:

NO ANIMAL DATA AVAILABLE

TERATOLOGY:

NO ANIMAL DATA AVAILABLE

REPRODUCTION:

NO ANIMAL DATA AVAILABLE

MUTAGENICITY:

NO ANIMAL DATA AVAILABLE

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

ECOTOXICOLOGICAL INFORMATION:

AMMONIA CAS# 1336-21-6:

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FISH TOXICITY: This material has exhibited moderate toxicity to aquatic organisms. 0.024-0.093 mg/L 96 hour(s) LC50 Bluegill sunfish; 8.2 mg/L 96 hour(s) LC50 Fathead minnow; 0.66 mg/L 48 hour(s) LC50 Daphnia magna; 3.17 mg/L (non-ionized NH3) 24 hour(s) LC50 Shrimp; 12 ppm 48 hour(s) LC50 Rana pipines

CHEMICAL FATE INFORMATION:

NO DATA.

=====SECTION 13 DISPOSAL

CONSIDERATIONS:=====

INSTRUCTIONS:

DISPOSE OF UNUSED PRODUCT OR CONTAMINATED PRODUCT AND MATERIALS USED IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APPROPRIATE FEDERAL, STATE AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES. INCINERATION IS ACCEPTABLE AND THE PREFERRED METHOD OF DISPOSAL, HOWEVER; NITROGEN OXIDE EMISSIONS CONTROLS MAY BE REQUIRED TO MEET SPECIFICATIONS. CHEMICAL AND BIOLOGICAL DEGRADATION IS POSSIBLE. EMPTY CONTAINERS WILL RETAIN PRODUCT RESIDUE AND VAPORS AND ARE SUBJECT TO PROPER WASTE DISPOSAL, AS ABOVE.COAGULATE THE EMULSION BY THE STEPWISE ADDITION OF FERRIC CHLORIDE AND LIME. REMOVE THE CLEAR SUPERNATANT AND FLUSH TO A CHEMICAL SEWER. INCINERATE LIQUID AND CONTAMINATED SOLIDS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

=====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.
A REPORTABLE QUANTITY IS A QUANTITY OF A HAZARDOUS SUBSTANCE THAT TRIGGERS REPORTING REQUIREMENTS UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT(CERCLA).IF A SPILL OF A SUBSTANCE EXCEEDS IT'S REPORTABLE QUANTITY(RQ) IN CFR 302.3 TABLE 40 302.4 APPENDIX A & 302.4 APPENDIX B, THE RELEASE MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AT (800) 424-8802, THE STATE EMERGENCY RESPONSE COMMISSION (SERC), AND COMMUNITY EMERGENCY COORDINATORS LIKELY TO BE AFFECTED.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

SEE SECTION II FOR PERCENTAGES
*TOXIC: NOT REPORTABLE IN QUANTITIES LESS THAN 1%
AMMONIA CAS#1336-21-6 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 APPENDIX A&B EXTREMELY HAZARDOUS SUBSTANCES. THE EMERGENCY PLANNING AND RELEASE REQUIREMENTS OF 40 CFR 355 APPLY TO ANY FACILITY AT WHICH THERE IS PRESENT AN AMOUNT OF ANY EXTREMELY HAZARDOUS SUBSTANCE EQUAL TO OR IN EXCESS OF IT'S THRESHOLD PLANNING QUANTITY.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

NONE KNOWN
EPCRA 40 CFR 372(SECTION 313 REQUIRES EPA AND THE STATES TO ANNUALLY COLLECT DATA ON RELEASES OF CERTAIN TOXIC MATERIALS FROM INDUSTRIAL FACILITIES, AND MAKE THE DATA AVAILABLE TO THE PUBLIC IN THE TOXICS RELEASE INVENTORY(TRI), THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED OR OR COMPILED FOR THIS MATERIAL.

COMPONENTS PRESENT THAT COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

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. THIS MIXTURE HAS NOT BEEN TESTED AS A WHOLE TO DETERMINE WHETHER THE MIXTURE IS A HEALTH HAZARD.THE MIXTURE SHALL BE ASSUMED TO PRESENT THE SAME HEALTH HAZARDS AS DO THE COMPONENTS WHICH COMPRISE ONE PERCENT(BY WEIGHT OR VOLUME) OR GREATER OF THE MIXTURE,EXCEPT THAT THE MIXTURE SHALL BE ASSUMED TO PRESENT A CARCINOGENIC HAZARD IF IT HAS A COMPONENT IN CONCENTRATIONS OF 0.1 PERCENT OR GREATER WHICH IS CONSIDERED TO BE A CARCINOGEN. FOR A LIST OF HAZARDOUS INGREDIENTS:

SEE SECTION II

THE REMAINING PERCENTAGE OF UNSPECIFIED INGREDIENTS, IF ANY, ARE NOT CONTAINED

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7 Del. C., Section 6028 describes the requirements for reporting the discharge of a pollutant or air contaminant.

"Delaware Reportable Quantity" (DRQ), means the reportable quantity of chemicals, substances, or mixtures listed in Section 3 of this regulation notwithstanding any reporting requirements by other state, federal, county or local government statutes, regulations or ordinances. To be reportable, the DRQ is based on the total quantity discharged over a rolling 24-hour period. Discharge includes any environmental release.

"State" means:

"Y" -- Does not agree with the federal reportable quantity requirements to report.

"N" -- Must be reported to the DRQ

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

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 (ENVIRONMENTAL HAZARD)

* ANY COMPOUND OF THIS CHEMICAL IS ALSO AN ENVIRONMENTAL HAZARD

S (SPECIAL HAZARD)

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