

MATERIAL SAFETY DATA SHEET

REVISED - 01/09/97

3600 SERIES M.S.D.S.

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 3600 SERIES
PRODUCT NAME: AIR DRY WATERBORNE ACRYLIC
PRODUCT CLASS: WATERBORNE ACRYLIC EMULSION

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT /EXPOSURE LIMITS	VAPOR PRESSURE mmHg @ 20°C	CAS NUMBER	WEIGHT PERCENT
* BUTYL CELLOSOLVE OSHA PEL = 50 PPM - ACGIH TLV = 25 PPM	0.9	111-76-2	5.0%
* BUTYL CARBITOL OSHA PEL = 25 PPM - ACGIH TLV = N.A.	0.8	112-34-5	1.6%
* BUTYL BENZYL PHTHALATE OSHA PEL = 25 PPM - STEL = 75 PPM	0.2	85-68-7	1.6%

*SARA III - SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO-KNOW ACT REQUIRES REPORTING THE USE OF CERTAIN CHEMICALS. FOR FURTHER INFORMATION ON YOUR REPORTING REQUIREMENTS, CONSULT YOUR SUPPLIERS OR CALL THE U.S.E.P.A. INFORMATION SERVICE AT 1-800-535-0202
THIS PRODUCT DOES CONTAIN CHEMICALS LISTED BY THE USEPA OR AS AN AIR TOXIC PER CALIFORNIA STATE ASSEMBLY BILL 2588.

* BUTYL CELLOSOLVE ^a	111-76-2	5.0 %
* BUTYL CARBITOL ^a	112-34-5	1.6 %
* BUTYL BENZYL PHTHALATE	85-68-7	1.6%

^aTHIS CHEMICAL ARE CONSIDERED TO BE IN THE "GLYCOL ETHER" CHEMICAL CATEGORY THE CATEGORY TOTAL IS 6.6%. ALSO NOTE GLYCOL ETHERS ARE REPORTABLE AS AN AIR TOXIC PER CALIFORNIA STATE ASSEMBLY BILL 2588.

SECTION III - PHYSICAL DATA

BOILING RANGE: 212°F - 451°F
EVAPORATION RATE: SLOWER THAN ETHER
% VOLATILE BY VOLUME: 64-68%
% SOLID BY VOLUME: 32-36 %
% SOLID BY WEIGHT: 34-50 %

VAPOR DENSITY: HEAVIER THAN AIR

WEIGHT PER GALLON: 8.5-10.5 #/gal
% VOLATILE BY WEIGHT: 50-64 %
% WATER BY VOLUME: 50-55 %

VOC CONTENT PER SCAQMD RULE 107 - AS SUPPLIED

EXCLUDING WATER: <2.10 #/GAL <252 GRAMS/ LITER
INCLUDING WATER : <0.85 #/GAL <102 GRAMS/ LITER

SECTION IV - FIRE AND EXPLOSION RISK

FLAMMABILITY CLASSIFICATION: COMBUSTIBLE LIQUID - CLASS III-B

FLASH POINT: > 212°F TCC L.E.L.: 0.3% U.E.L.: 10.6%
EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE, WATER FOG

UNUSUAL FIRE AND EXPLOSIONS HAZARDS:

CONTAINERS MAY DEFORM OR EXPLODE WHEN EXPOSE TO EXTREME HEAT.
DECOMPOSITIONS PRODUCTS MAY YIELD, OXIDES OF CARBON AND NITROGEN.
SPECIAL FIRE FIGHTING PRECAUTIONS:

SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN A PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

NOTE! THIS PRODUCT IS A WATERBORNE EMULSION AND UNDER NORMAL OPERATING CONDITIONS PRESENTS MINIMAL RISK OF FIRE OR EXPLOSION. HOWEVER, PROPER STORAGE, AND CAUTION IN HANDLING AND USE PRACTICES SHOULD BE USED AT ALL TIMES.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

EYES: CAN CAUSE IRRITATION AND REDNESS, TEARING OR BLURRED VISION

SKIN: MILD IRRITATION POSSIBLE FROM PROLONGED EXPOSURE

INHALATION: NASAL IRRITATION, HEADACHE, DIZZINESS, NAUSEA, WEAKNESS OR VOMITING.

INGESTION: GASTROINTESTINAL IRRITATION, HEADACHE, DIZZINESS, NAUSEA, WEAKNESS OR VOMITING.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING RESPIRATORY CONDITIONS, PRE-EXISTING SKIN DISORDERS, LIVER AND KIDNEY DISORDERS.

PRIMARY ENTRY ROUTES OF EXPOSURE: DERMAL & INHALATION

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN: WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING.

INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN.

IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.

INGESTION: INDUCE VOMITING, KEEP PERSON WARM AND QUIET. GET MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR: NONE

CONDITIONS TO AVOID: EXTREME TEMPERATURES

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID CONTAMINATION WITH ALKALIS.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REFER TO SECTIONS IV, V, VI, VII AND VIII. ELIMINATE ALL IGNITION SOURCES, ABSORB LIQUID IN ABSORBANT MATERIAL AND PREVENT SPREADING TO GROUND WATER.

WASTE DISPOSAL METHOD:

DESTROY BY LIQUID INCINERATION IN ACCORDANCE WITH APPLICABLE REGULATIONS. CONTAMINATED ABSORBANT SHOULD BE INCINERATED OR SENT TO APPROVED LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER.) ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION:

PROVIDE SUFFICIENT MECHANICAL (GENERAL AND / OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV (S).

PROTECTIVE EQUIPMENT:

OSHA APPROVED CHEMICAL EYE PROTECTION. CHEMICAL & SOLVENT RESISTANT GLOVES AND SPLASH APRON SUGGESTED FOR MIXING OPERATIONS. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT:

PREVENT REPEATED OR PROLONGED SKIN CONTACT WITH GB PROTECTIVE HAND CREAM, WEAR IMPERVIOUS CLOTHING AND CHEMICAL RESISTANT BOOTS.

HYGIENIC PRACTICES:

"WASH HANDS BEFORE EATING OR USING REST ROOM, SMOKE IN SMOKING AREAS ONLY."

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: PREVENT FREEZING. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUALS (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS IN THIS DATA SHEET MUST BE OBSERVED.

OTHER PRECAUTIONS:

PAINT AND SOLVENTS HAVE BEEN LINKED TO LIVER ABNORMALITIES, KIDNEY AND LUNG DAMAGE. ALTHOUGH THIS COATING IS A WATERBORNE OF LOW TOXICITY, FOLLOW PRECAUTIONS OF THIS MATERIAL SAFETY DATA SHEET TO PREVENT OVEREXPOSURE.

SECTION X - CARCINOGENICITY INFORMATION

DOES THIS PRODUCT CONTAIN ANY SUSPECTED CARCINOGENS?

XX NO: THIS PRODUCT DOES NOT CONTAIN OVER 0.1% OF ANY SUSPECTED CARCINOGENS

____ YES: THIS PRODUCT CONTAINS OVER 0.1% OF FOLLOWING SUSPECTED CARCINOGENS NOT APPLICABLE.....

FEDERAL OSHA ____ NTP ____ IARC ____ CAL/OSHA ____

NOTE: CALIFORNIA EMPLOYERS USING CAL/OSHA REGULATED CARCINOGENS MUST REGISTER WITH CAL/OSHA.

SECTION XI - SHIPPING INFORMATION

D.O.T. SHIPPING NAME	: NOT REGULATED BUY DOT 49CFR
D.O.T. HAZARD CLASS	: N/A
UN/NA NUMBER	: N/A
PACKAGING GROUP	: PG II
D.O.T. LABELS REQUIRED	: N/A
FLASH POINT	: ABOVE 212 DEG. F. (TCC)

SECTION XII - OTHER REGULATORY INFORMATION

Toxic Substance Control Act: All of the components of this product are approved and listed on the EPA TSCA Inventory or exempt from notification.

Canadian Environmental Protection: All of the components of this product are approved and listed on the Canadian Domestic Substance List or exempt from notification requirements.

THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET IS CONSIDERED TO BE TRUE AND ACCURATE. CARDINAL INDUSTRIAL FINISHES MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, AS TO THE ACCURACY AND ADEQUACY OF THIS INFORMATION. THIS DATA IS OFFERED SOLELY FOR THE USER'S CONSIDERATION, INVESTIGATION AND VERIFICATION.