

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

071098219

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

071098201 071098227 071098797 071098805 071098813 071098821

## SECTION 1: IDENTIFICATION OF PRODUCT

FORMULA: MIXTURE OF ACRYLIC COPOLYMER RESINS AND SOLVENTS FOR SURFACE HARDENING OF MODELS AND DIES.

SYNONYM OR CROSS REFERENCE: **CLEAR COAT MODEL HARDENER (SOLVENTS & RESINS)**



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## MATERIAL SAFETY DATA

## NFPA RATINGS

HEALTH HAZARD: 1  
FIRE & EXPLOSION: 3  
REACTIVITY: 0  
PROTECTION: B

## SECTION 2: HAZARDOUS INGREDIENTS

MATERIAL: BLEND OF SOLVENTS. ACETONE, CAS NO. 67-64-1; METHYLETHYLKETONE, CAS NO. 78-93-3. (LESS THAN 85%), ACRYLIC COPOLYMER (PROPRIETARY)

NATURE OF HAZARD: FLAMMABLE LIQUID. LESS THAN 1 LITER SHIPS AS ORM-D

DOT CLASSIFICATION (> 1 LITER): PAINT/PAINT RELATED MATERIAL, UN 1263, CLASS 3, PG II.

## SECTION 3: PHYSICAL DATA

MELTING POINT: °F: N/A

BOILING POINT: °F: 170

VAPOR PRESSURE: (MM HG): 107 AT 68°F.

SPECIFIC GRAVITY: (H<sub>2</sub>O=1): 1.08 at 77°F

VAPOR DENSITY: (AIR =1): GREATER THAN 1

WATER SOLUBILITY: PARTIAL (RESIN PRECIPITATES)

PH OF SOLUTION: N/A

PERCENT VOLATILE: APPROX. 85%

EVAPORATION RATE: (BUAC =1): GREATER THAN 1

APPEARANCE: CLEAR, THIN, COLORLESS LIQUID. CHARACTERISTIC SHARP KETONE ODOR.

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used): 23°F. (TCC)

FLAMMABLE LIMITS: LEL=2%

FIRE EXTINGUISHING MEDIA: CARBON DIOXIDE OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: NONE FOR LAB QUANTITIES. IF SAFE, REMOVE CONTAINERS FROM SOURCES OF HEAT AND COOL THEM.

UNUSUAL FIRE AND EXPLOSION HAZARD: WHEN HEATED TO DECOMPOSITION, EMITS IRRITATING FUMES. CLOSED BOTTLES WILL RUPTURE IF EXPOSED TO EXTREME HEAT.

## SECTION 5: HEALTH HAZARD

THRESHOLD LIMIT VALUE: TLV: 250 PPM (SOLVENT VAPORS)

HEALTH HAZARDS: Effects of overexposure to product.

Skin: PROLONGED CONTACT CAN CAUSE IRRITATION AND DEFATTING.

Eyes: EXPOSURE TO LIQUID CAN CAUSE SEVERE IRRITATION, REDNESS AND BLURRED VISION.

Inhalation: HIGH CONCENTRATIONS OF VAPOR CAN CAUSE IRRITATION TO RESPIRATORY SYSTEM, HEADACHE, NAUSEA, DIZZINESS AND FATIGUE.

Ingestion: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

FIRST AID PROCEDURES:

Skin: WASH WELL WITH SOAP AND WATER. IF IRRITATION DEVELOPS GET MEDICAL ATTENTION.

Eyes: FLUSH WITH PLENTY OF COOL WATER FOR 15 MINUTES, WHILE LIFTING EYE LIDS. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

Inhalation: IF AFFECTED, REMOVE TO FRESH AIR. IF IRRITATION PERSISTS OR WORSENS GET MEDICAL ATTENTION.

Ingestion: GIVE 2 GLASSES OF WATER AND INDUCE VOMITING MECHANICALLY OR WITH SYRUP OF IPECAC. GET MEDICAL ATTENTION.

CARCINOGENICITY: NO INGREDIENTS IDENTIFIED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY NTP, IARC OR OSHA.

## SECTION 6: REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: HEAT, SPARKS AND OPEN FLAMES

INCOMPATIBILITY (MATERIALS TO AVOID): ACTIVE METALS, OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL FORM IRRITATING FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

## SECTION 7: SPILL AND DISPOSAL PROCEDURES

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

IF SPILLED, EXTINGUISH ALL NEARBY SOURCES OF HEAT, SPARKS OR IGNITION AND VENTILATE THE AREA. MODEL HARDENER MAY BE CLEANED OFF SOLVENT RESISTANT SURFACES WITH THINNER OR ACETONE. LIQUID MAY BE PICKED UP WITH ANY ABSORBENT MATERIAL.

WASTE DISPOSAL METHOD:

ALLOW TO EVAPORATE TO DRYNESS IN A HOOD, OR DISPOSE OF IN APPROVED METAL WASTE CAN.

## SECTION 8: PROTECTION INFORMATION

VENTILATION: LOCAL EXHAUST IS PREFERRED. MECHANICAL ACCEPTABLE.

SKIN: RUBBER OR NITRILE GLOVE.

EYES: SAFETY GLASSES OR SPLASH GOGGLES. DO NOT WEAR CONTACT LENSES WHEN HANDLING CHEMICALS.

RESPIRATORY: NONE NEEDED IN NORMAL USE.

OTHER PROTECTIVE EQUIPMENT: EYE-WASH STATION.

## SECTION 9: HANDLING AND STORAGE (lab quantities)

KEEP CONTAINERS WELL CLOSED. STORE IN COOL, DRY, WELL VENTILATED AREA. FOR LABORATORY OR OFFICE USE ONLY. KEEP OUT OF REACH OF CHILDREN. AVOID HEAT AND DIRECT SUNLIGHT. NORMAL PRECAUTIONS OF LABORATORY GOOD HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED.

## SECTION 10: MISCELLANEOUS INFORMATION

REGULATIONS RELATED TO STORAGE AND HANDLING OF FLAMMABLE LIQUIDS SHOULD BE FOLLOWED.

EMERGENCY RESPONSE: INFOTRAC: 1-800-535-5053

SALES INFORMATION: 1-800-558-5925 (8 AM TO 6 PM EST, MONDAY TO FRIDAY)

Revision Date: 3/1/2012

Information Furnished By: L. D. Hochhauser  
Product Development Mgr.

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**SAFETY DATA SHEET**

**SECTION 1: IDENTIFICATION OF PRODUCT**

PRODUCT NAME: **CLEAR COAT MODEL HARDENER**

APPLICATION: MIXTURE OF COPOLYMER RESINS AND SOLVENTS FOR SURFACE HARDENING OF MODELS AND DIES.

EMERGENCY CONTACT: **INFOTRAC: 1-352-323-3500, TOLL-FREE 1-800-535-5053**

**SECTION 2: HAZARDS IDENTIFICATION (CLASSIFICATION)**

DANGER: FLAMMABLE LIQUID. LESS THAN 1 LITER SHIPS AS ORM-D

WARNING: IRRITANT TO SKIN AND EYES.



**SECTION 2A: PHYSICAL HAZARDS**

H225: HIGHLY FLAMMABLE LIQUID AND VAPOR. CATEGORY 2

**SECTION 2B: HEALTH HAZARDS**

THRESHOLD LIMIT VALUE: TLV: 250 PPM (SOLVENT VAPORS)

SKIN: H315: CAUSES SKIN IRRITATION. CATEGORY 2

EYES: H319: CAUSES SERIOUS EYE IRRITATION. CATEGORY 2A

INHALATION: H332: HARMFUL IF INHALED. CATEGORY 4.

INGESTION: H302: HARMFUL IF SWALLOWED. CATEGORY 4

CARCINOGENICITY: NO INGREDIENTS IDENTIFIED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY NTP, IARC OR OSHA.

**SECTION 3: COMPOSITION / INGREDIENTS**

MIXTURE: ☐ Yes ☒ No

KETONE ESTER SOLVENT (PROPRIETARY)

ACRYLIC COPOLYMER (PROPRIETARY) NON-HAZARDOUS

VINYL ELASTOMER (PROPRIETARY) NON-HAZARDOUS

**SECTION 4: FIRST AID MEASURES**

SKIN: P302+352: IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. P332+313: IF SKIN IRRITATION OCCURS: CONTACT A POISON CENTER OR DOCTOR/PHYSICIAN.

EYES: P305+351+338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO – CONTINUE RINSING. P337+313: IF EYE IRRITATION PERSISTS GET MEDICAL ADVICE/ATTENTION.

INHALATION: P304+340: IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. P342+311: IF EXPERIENCING RESPIRATORY SYMPTOMS: CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

INGESTION: P311: CALL A POISON CENTER/PHYSICIAN. GIVE 2 GLASSES OF WATER AND INDUCE VOMITING MECHANICALLY OR WITH SYRUP OF IPECAC.

**SECTION 5: FIREFIGHTING MEASURES**

FLASH POINT: 26 F (TCC)

FLAMMABLE LIMITS: LEL 2.4%

FIRE EXTINGUISHING MEDIA: P370+378: IN CASE OF FIRE: USE THE FOLLOWING FOR EXTINCTION:  
CARBON DIOXIDE OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: NONE FOR LAB QUANTITIES. IF SAFE, REMOVE CONTAINERS FROM SOURCES OF HEAT AND COOL THEM.

UNUSUAL FIRE AND EXPLOSION HAZARD: WHEN HEATED TO DECOMPOSITION, EMITS IRRITATING FUMES. CLOSED BOTTLES WILL RUPTURE IF EXPOSED TO EXTREME HEAT. VAPORS MAY BE IGNITED BY HEAT, SPARKS, FLAMES OR STATIC ELECTRICITY.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

PRECAUTIONS: N/A

PROCEDURES: EXTINGUISH ALL NEARBY SOURCES OF IGNITION. VENTILATE THE AREA. ABSORB LIQUID ON PAPER TOWELING, VERMICULITE OR ABSORBANT PADS AND ALLOW TO EVAPORATE IN A HOOD OR OPEN AIR.

#### **SECTION 7: HANDLING AND STORAGE (LAB QUANTITIES)**

P102: KEEP OUT OF REACH OF CHILDREN. P402+404: STORE IN A DRY PLACE. STORE IN A CLOSED CONTAINER. P403+235+410: STORE IN A WELL VENTILATED PLACE. KEEP COOL. PROTECT FROM SUNLIGHT. FOR LABORATORY OR OFFICE USE ONLY. DO NOT MIX WITH OTHER MATERIALS UNLESS DIRECTED TO DO SO. NORMAL PRECAUTIONS OF LABORATORY GOOD HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED.

#### **SECTION 8: EXPOSURE CONTROLS (PERSONAL PROTECTION)**

VENTILATION: LOCAL EXHAUST IS PREFERRED. MECHANICAL ACCEPTABLE.

SKIN: P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. NITRILE OR RUBBER IMPERMEABLE GLOVES.

EYES: P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. SAFETY GLASSES OR GOGGLES. DO NOT WEAR CONTACT LENSES WHEN HANDLING CHEMICALS.

RESPIRATORY: NONE NEEDED IN NORMAL USE.

OTHER: EYE WASH STATION

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: CLEAR, COLORLESS, MOBILE LIQUID WITH CHARACTERISTIC SHARP KETONE ODOR.

PH OF SOLUTION: N/A

MELTING POINT: °F: N/A

BOILING POINT: 150 F

SPECIFIC GRAVITY: 1.08

EVAPORATION RATE: (BUAC =1): GREATER THAN 1.

VAPOR DENSITY: (AIR =1): GREATER THAN 1.

PERCENT VOLATILE: 85%

VAPOR PRESSURE: 118 mm Hg AT 68 F

WATER SOLUBILITY: PARTIAL (RESIN PRECIPITATES)

#### **SECTION 10: REACTIVITY DATA**

STABILITY: STABLE

CONDITIONS TO AVOID: HEAT, SPARKS AND OPEN FLAMES

INCOMPATIBILITY (MATERIALS TO AVOID): ACTIVE METALS, OXIDIZING AGENTS. STRONG ACIDS OR BASES.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL FORM IRRITATING FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

REACTIVITY WITH WATER: WILL NOT OCCUR.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

ACUTE EXPOSURE: SIGNS AND SYMPTOMS:

SKIN: PROLONGED CONTACT CAN CAUSE IRRITATION AND DEFATTING.

EYES: EXPOSURE TO LIQUID CAN CAUSE SEVERE IRRITATION, REDNESS AND BLURRED VISION.

INHALATION: HIGH CONCENTRATIONS OF VAPOR CAN CAUSE IRRITATION TO RESPIRATORY SYSTEM, HEADACHE, NAUSEA, DIZZINESS AND FATIGUE.

INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

CHRONIC EXPOSURE: NO HUMAN DATA REPORTED

SENSITIZER: NO HUMAN DATA REPORTED

CARCINOGENICITY: NO INGREDIENTS IDENTIFIED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY NTP, IARC OR OSHA.

TERATOGENICITY: N/A

EMBRYOTOXICITY: N/A

MUTAGENICITY: N/A

PRE-EXISTING CONDITIONS: N/A

## **SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY: NOT ESTABLISHED FOR THIS MIXTURE.

DEGRADABILITY: EXPECTED TO BE BIODEGRADABLE

BIOACCUMULATION: NOT EXPECTED TO BIO-ACCUMULATE.

MOBILITY IN SOIL: EXPECTED TO BE LOW. MATERIAL IS VOLATILE.

## **SECTION 13: DISPOSAL INFORMATION**

ALLOW TO EVAPORATE TO DRYNESS IN A HOOD, OR DISPOSE OF IN APPROVED METAL WASTE CAN.

## **SECTION 14: TRANSPORT INFORMATION**

UN NUMBER: UN1263

SHIPPING NAME: PAINT/PAINT RELATED MATERIAL

CLASS: CLASS 3

PACKING GROUP: GROUP II

MARINE POLLUTANT: N/A

WARNING SYMBOL: FLAMMABLE LIQUID.

OTHER: LESS THAN 1 LITER CAN SHIP AS ORM-D.

## **SECTION 15: REGULATORY INFORMATION**

LABELING: FLAMMABLE, IRRITANT PICTOGRAMS.

NFPA RATINGS: HEALTH HAZARD: 1 FIRE & EXPLOSION: 3 REACTIVITY: 0 SPECIAL PROTECTION: B

NATIONAL REGULATIONS:

TSCA: ALL COMPONENTS ARE ON THE TSCA INVENTORY LIST

SARA: SARA SECTION 302: EXTREMELY HAZARDOUS SUBSTANCES: NONE LISTED.

SARA SECTION 313: N/A

INAPPLICABLE: NO COMPONENTS ARE SUBJECT TO TSCA SNUR LISTING.

FOREIGN REGULATIONS:

ALL COMPONENTS ARE ON THE EU EINECS INVENTORY LIST AND THE CANADIAN DSL.

## **SECTION 16: OTHER INFORMATION**

REGULATIONS RELATED TO STORAGE AND HANDLING OF FLAMMABLE LIQUIDS SHOULD BE FOLLOWED.

**SALES INFORMATION: 1-800-558-5925 (8 AM TO 6 PM EST, MONDAY TO FRIDAY)**

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Information Furnished By: L. D. Hochhauser  
Product Development Mgr.

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