

C026433

FOR COATINGS, RESINS, AND RELATED MATERIALS
(APPROVED BY THE U.S. DEPARTMENT OF LABOR AS
'ESSENTIALLY SIMILAR' TO FORM OSHA-20)
(MEETS REQUIREMENTS OF CFR 29 PART 1910.1200,
OSHA'S HAZARD COMMUNICATION STANDARD)

NPCA 1-84

N231 SECTION 01 - MANUFACTURER AND PRODUCT INFORMATION

MANUFACTURER: TNEPEC COMPANY, INC.
123 WEST 23RD AVENUE
NORTH KANSAS CITY, MO.
64116-3064
DATE PRINTED: 10/12/87
CURRENT FORMULA DATE: 09/29/87
EMERGENCY TELEPHONE NO.: 816-474-1425
INFORMATION TELEPHONE NO.: 816-474-3400
PREVIOUS FORMULA DATE: 02/16/87
TRADE NAME: SERIES 073 ENDURA-SHIELD III
MANUFACTURER'S CODE IDENTIFICATION: F073XC106A COLOR: CLEAR BASE
PRODUCT CLASS: ACRYLIC

SECTION 02 - HAZARDOUS INGREDIENTS

INGREDIENT: CRYSTALLINE SILICA (QUARTZ, RESPIRABLE DUST) CAS#: 14808-60-7
PERCENT BY WEIGHT: PROPRIETARY
OCCUPATIONAL EXPOSURE LIMITS:
ACGIH: TLV - TWA .100 MG/M3
ACGIH: TLV - STEL .000 NO INFO AVAILABLE
ACGIH: TLV - C .000 NO INFO AVAILABLE
OSHA: PEL - TWA .100 MG/M3
OSHA: PEL - C .000 NO INFO AVAILABLE
VAPOR PRESSURE: .00 NOT APPLICABLE
Hazard for this material is as a dust only. This hazard is eliminated in liquid paint coatings. Dust hazard is applicable if dried coating is subjected to grinding and/or sanding operations.

INGREDIENT: CRYSTALLINE SILICA (QUARTZ, TOTAL DUST) CAS#: 14808-60-7
PERCENT BY WEIGHT: PROPRIETARY
OCCUPATIONAL EXPOSURE LIMITS:
ACGIH: TLV - TWA .300 MG/M3
ACGIH: TLV - STEL .000 NO INFO AVAILABLE
ACGIH: TLV - C .000 NO INFO AVAILABLE
OSHA: PEL - TWA .300 MG/M3
OSHA: PEL - C .000 NO INFO AVAILABLE
VAPOR PRESSURE: .00 NOT APPLICABLE
Hazard for this material is as a dust only. This hazard is eliminated in liquid paint coatings. Dust hazard is applicable if dried coating is subjected to grinding and/or sanding operations.

INGREDIENT: PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE CAS#: 108-65-6
PERCENT BY VOLUME: 26.64 %
OCCUPATIONAL EXPOSURE LIMITS:
ACGIH: TLV - TWA 100.000 ASSUMED AMT IN PPM
ACGIH: TLV - STEL .000 NO INFO AVAILABLE
ACGIH: TLV - C .000 NO INFO AVAILABLE
OSHA: PEL - TWA 100.000 ASSUMED AMT IN PPM
OSHA: PEL - C .000 NO INFO AVAILABLE
VAPOR PRESSURE: 3.80 MMHG AT 20C

INGREDIENT: XYLENE CAS#: 1330-20-7
PERCENT BY VOLUME: 1.12 %
OCCUPATIONAL EXPOSURE LIMITS:
ACGIH: TLV - TWA 100.000 PPM
ACGIH: TLV - STEL 150.000 PPM
ACGIH: TLV - C .000 NO INFO AVAILABLE
OSHA: PEL - TWA 100.000 PPM
OSHA: PEL - C .000 NO INFO AVAILABLE
VAPOR PRESSURE: 5.10 MMHG AT 20C

INGREDIENT: METHYL ETHYL KETONE CAS#: 78-93-3
PERCENT BY VOLUME: 9.89 %
OCCUPATIONAL EXPOSURE LIMITS:
ACGIH: TLV - TWA 200.000 PPM
ACGIH: TLV - STEL 300.000 PPM
ACGIH: TLV - C .000 NO INFO AVAILABLE
OSHA: PEL - TWA 200.000 PPM

C026433

VAPOR PRESSURE: 70.00 MMHG AT 20C

The information contained in this section is considered confidential and proprietary and should be used only for safety and health purposes.

SECTION 03 - HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE:

ACUTE (SHORT TERM):

INHALATION - OVEREXPOSURE TO SOLVENT VAPORS OR SPRAY MIST MAY CAUSE:

Nasal and respiratory irritation, anesthetic effects, dizziness, possible unconsciousness and asphyxiation, stupor, weakness, fatigue, nausea, and headache.

INHALATION - OVEREXPOSURE TO FREE PIGMENT DUST MAY CAUSE:

Coughing, wheezing, shortness of breath, restricted nasal passages, lung injury.

INHALATION - OTHER:

Not applicable

SKIN - PROLONGED OR REPEATED CONTACT MAY CAUSE:

Moderate irritation, drying of skin, defatting and possible dermatitis.

EYES - CONTACT MAY RESULT IN:

Redness, tearing, blurred vision.

Severe irritation.

INGESTION MAY RESULT IN:

Gastrointestinal irritation, nausea, vomiting, diarrhea, death, aspiration into the lungs which can be fatal.

CHRONIC (LONG TERM, CUMULATIVE):

Prolonged inhalation of dusts containing crystalline silica may result in the development of a lung disease known as silicosis.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the vapors may be harmful or fatal.

TOXICITY INFORMATION:

Consult various toxicology references such as NIOSH's "Registry of Toxic Effects of Chemical Substances" or Sax's "Dangerous Properties of Industrial Chemicals" for specific toxicity information regarding hazardous ingredients.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY OVEREXPOSURE:

Not applicable

PRIMARY ROUTES OF ENTRY:

Dermal and Inhalation.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION:

Remove affected individual to fresh air. Treat symptomatically. If breathing is difficult, administer oxygen. If breathing has stopped give artificial respiration. Consult a physician.

SKIN CONTACT:

Wash affected area with soap and water. Remove contaminated clothing. Dispose of or launder accordingly. Consult a physician if skin irritation persists.

EYE SPLASH:

Flush immediately with large amounts of clean water under low pressure for at least 15 minutes. Consult a physician.

INGESTION:

Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center IMMEDIATELY. Treat symptomatically.

OTHER:

This product when mixed with other components acquires the hazards of all components.

SECTION 04 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F) (SETA FLASH CLOSED CUP): 075

LOWER EXPLOSIVE LIMIT (LEL) : 1.00

FLAMMABILITY CLASSIFICATION:

OSHA:

Flammable liquid - Class IC

DOT:

Flammable liquid

EXTINGUISHING MEDIA:

Foam, carbon dioxide, and dry chemical.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep away from heat, open flames, sparks, and areas where static

C026433

possible fire and explosion risk. For closed containers, pressure build-up and possible explosion might occur due to extreme heat exposure. Solvent vapors are heavier than air and may travel considerable distance to a source of ignition and flash back.

SPECIAL FIRE-FIGHTING PROCEDURES:

Water may be used to cool unruptured containers. Wear self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode to prevent inhalation of hazardous decomposition products. Use appropriate extinguishing media to control fire. Water may cause violent frothing if sprayed directly into containers of burning liquid.

SECTION 05 - REACTIVITY DATA**STABILITY:**

Stable.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizing agents.

CONDITIONS TO AVOID:

Heat, sparks, open flames.

Isocyanate compounds under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS - FIRE, BURNING OR WELDING OF COATING PRODUCTS MAY FORM:

Carbon monoxide, carbon dioxide, hydrocarbon fragments

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 06 - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Remove all sources of ignition. Spills may be collected with inert, absorbent material for proper disposal. Use non-sparking tools, protective gloves, goggles and clothing, adequate ventilation, avoid the breathing of vapors and use respiratory protective devices. Transfer absorbent material to suitable containers for proper disposal.

WASTE DISPOSAL METHOD:

Dispose of in accordance with Federal, state, and local regulations regarding pollution.

SECTION 07 - SAFE HANDLING AND USE INFORMATION**RESPIRATORY PROTECTION:**

Respiratory protective devices must be used, in conjunction with and as a back-up to engineering and administrative controls, to maintain Threshold Limit Values (TLV) and Permissible Exposure Limits (PEL) of airborne contaminants below the listed values for those hazardous ingredients identified in Section II of this MSDS. Observe OSHA regulations for respirator use (CFR 29, 1910.134) whenever a respirator is used.

Particulate, chemical cartridge, air purifying half-mask respirators can be used within certain limitations; consult the respirator manufacturer for specific uses and limitations. In confined, poorly ventilated areas where airborne contaminant concentrations are heavy and/or unknown, the use of a NIOSH/MSHA approved fresh-air supplied respirator is mandatory.

VENTILATION:

Sufficient ventilation, in volume and pattern, should be provided through both local and general exhaust to keep the air contaminant concentration below current applicable OSHA Permissible Exposure Limits (PEL) and ACGIH's Threshold Limit Values (TLV). Appropriate ventilation should be employed to remove hazardous decomposition products formed during welding or flame cutting operations of surfaces coated with this product.

Heavier than air solvent vapors should be removed from lower levels of work area due to potential explosion hazard and all ignition sources (non-explosion proof equipment) should be eliminated if flammable mixtures will be encountered.

PROTECTIVE GLOVES:

Chemical resistant.

EYE PROTECTION:

Use chemical resistant splash type goggles.

OTHER PROTECTIVE EQUIPMENT:

Use chemical resistant coveralls or apron to protect against skin and clothing contamination.

HYGIENIC PRACTICES:

C026433

water before eating.

SECTION 08 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in dry area. Keep closures tight and upright to prevent leakage. Do not store in high temperature areas or near fire or open flame. Refer to product data sheet for recommended storage temperatures.

OTHER PRECAUTIONS:

-
-

Do not use near heat, sparks, or open flame. Use approved grounding procedures. Prevent prolonged breathing of vapor or spray mist. Prevent contact with skin and eyes. Do not take internally. Keep out of reach of children. Do not reuse or alter containers without proper industrial cleaning. Do not weld or flame cut empty, uncleaned containers due to potential fire and explosion hazard. Consult product data sheet for proper application instructions.

SECTION 09 - PHYSICAL DATA

BOILING RANGE (F AT 760 MMHG): 172 - 288
VAPOR DENSITY: HEAVIER THAN AIR
WEIGHT PER GALLON: 11.97
% VOLATILE BY VOLUME: 38.100
% SOLIDS BY WEIGHT: 75.617
EVAPORATION RATE: SLOWER - ETHYL ETHER
VOC (LBS/GAL): 2.909

SECTION 10 - OTHER INFORMATION

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

*
To the best of our knowledge, the information contained herein is accurate. However, neither the Toemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.