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

SECTION 1 - MANUFACTURER AND PRODUCT INFORMATION

CHEMICAL PRODUCT IDENTIFICATION:
PRODUCT ID .......................................................... N140-1211A 5G
PRODUCT CLASS .................................................. POLAMINE AMIDO AMINE
TRADE NAME .................................................... POTA-POX PLUS RED PRIMER
FORMULA VERSION NUMBER .............................. 7
MSDS PREPARATION DATE ................................. 02/10/2000
MANUFACTURER IDENTIFICATION
NAME ................................................................. TNEMEC COMPANY, INC.
ADDRESS: .......................................................... 123 WEST 23RD AVENUE
........................................................................... NORTH KANSAS CITY, MO. 64116-3064
TELEPHONE ....................................................... 816-474-3400
EMERGENCY TELEPHONE ......................... 816-474-1425

SECTION 2 - HAZARDOUS INGREDIENTS

1
CAS# 1309-37-1
IRON OXIDE FUME
PCT BY WT: 12.5630
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0005.00 MG/M3
OSHA PEL/TWA: 0010.00 MG/M3

2
CAS# 14808-60-7
CRYSTALLINE SILICA (QUARTZ, RESPIRABLE DUST)
PCT BY WT: 2.0420
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0000.10 MG/M3
OSHA PEL/TWA: 0000.05 MG/M3

3
CAS# 14808-60-7
CRYSTALLINE SILICA (QUARTZ, RESPIRABLE DUST)
PCT BY WT: 22.9290
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0000.10 MG/M3
OSHA PEL/TWA: 0000.05 MG/M3

4
MAGNESIUM SILICATE
CAS# 14807-96-6
TALC (NO ASBESTOS FIBERS/RESPIRABLE DUST)
PCT BY WT: 26.5110
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0002.00 MG/M3
OSHA PEL/TWA: 0002.00 MG/M3
N140-1211A 5G
POTA-POX PLUS RED PRINER

5  MODIFIED ALIPHATIC AMINE
PCT BY WT: 7.2180
EXPOSURE LIMIT:

6  POLYAMIDE RESIN
PCT BY WT: 5.8020
EXPOSURE LIMIT:

7  N-BUTYL ALCOHOL
CAS# 71-36-3
N-BUTANOL (SKIN)
PCT BY WT: 4.0700
VAPOR PRESSURE: 4.400 MMHG @ 60F
EXPOSURE LIMIT:
ACGIH CEILING: 0050.00 PPM
OSHA CEILING: 0050.00 PPM

8  CAS# 100-51-6
BENZYL ALCOHOL
PCT BY WT: 4.6930
EXPOSURE LIMIT:

9  CAS# 100-41-4
ETHYL BENZENE
PCT BY WT: 2.5500
VAPOR PRESSURE: 6.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0100.00 PPM
ACGIH TLV/STEL: 0125.00 PPM
OSHA PEL/TWA: 0100.00 PPM
OSHA STEL: 0125.00 PPM

10  XYLENE
CAS# 1330-20-7
DIMETHYLBENZENE
PCT BY WT: 10.5610
VAPOR PRESSURE: 5.100 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0100.00 PPM
ACGIH TLV/STEL: 0150.00 PPM
OSHA PEL/TWA: 0100.00 PPM
OSHA STEL: 0150.00 PPM

This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.
This substance contains a material classified as a hazardous air pollutant. This product contains pigment dusts which may be released when subjected to abrasive blasting, sanding, or grinding. The information contained in this section is considered confidential and proprietary and should be used only for safety and health purposes.

SECTION 3 - HEALTH HAZARD INFORMATION

EMERGENCY OVERVIEW:
POTENTIAL HEALTH EFFECTS:
CYC:
Severe irritation. Redness, tearing, blurred vision.
May result in permanent visual loss.
Corrosive responses, burns.
SKIN:
Allergic skin responses.
Discoloration.
Can be a skin sensitizer.
Corrosive skin responses.
INHALATION - OVEREXPOSURE TO SOLVENT VAPORS OR SPRAY MIST:
Nasal and respiratory irritation, anesthetic effects, dizziness, possible unconsciousness and asphyxiation, stupor, weakness, fatigue, nausea, and headache.
INHALATION - OVEREXPOSURE TO FREE PIGMENT DUST:
Coughing, wheezing, shortness of breath, restricted nasal passages, lung injury.
INGESTION:
Gastrointestinal irritation, nausea, vomiting, diarrhea, death, aspiration into the lungs which can be fatal.
CHRONIC EFFECTS:
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. Prolonged or repeated contact with skin may cause primary irritation, dermatitis, or allergic skin reactions. This Product contains crystalline silica, which is considered a cancer hazard by inhalation of respirable dust. The Internation Agency for Research on Cancer (IARC) concluded that respirable crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 10).
TARGET ORGANS:
Can be corrosive to shin.
Can cause respiratory tract irritation.
Can cause lung damage.
Can cause eye damage.
Can cause liver damage.
Can cause cancer. Risk of cancer depends on duration and level of exposure.
Can cause Gastrointestinal tract damage.
Can cause kidney damage.
Can cause nervous system effects.
Can cause skin sensitization.
OTHER:
This Product when mixed with other components acquires the hazards of all components.
PRIMARY ROUTES OF ENTRY:
Dermal and Inhalation.
PROPOSITION 65:
Pigments and/or other raw materials present in this product contain trace amounts of a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT:
Flush immediately with large amounts of clean water under low pressure for at least 15 minutes. 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.

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.

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

NOTE TO PHYSICIAN:
Exposure may aggravate Persons with eczema. skin sensitization. Or other chronic shin disorders and allergies.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

FIRE AND EXPLOSIVE PROPERTIES OF THE CHEMICAL:
Flammability Classification . . . . . :
Flash Point . . . . . . . . . . . . . : 78.0
Explosion Level . . . . . . . . . . . : Low - 1.0
High - -N/A
Flammability Limits . . . . . . . : Lower - -N/A
Higher - -N/A

EXTINGUISHING MEDIA:
Foam, carbon dioxide, and dry chemical.

FIRE-FIGHTING PROCEDURES AND EQUIPMENTS:
Keep away from heat, open flames, sparks, and areas where static charge may be generated. Do not apply to hot surfaces due to 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. Water may be used to cool un-ruptured containers. Wear self-contained breathing apparatus with a full face piece 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 6 - SPILL OR LEAK PROCEDURES

CLEAN-UP:
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.
SECTION 7 - SPECIAL PRECAUTIONS

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.

SPECIAL COMMENTS:
Prevent prolonged breathing of airborne contaminants such as vapor, spray mists, or dusts. 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, un-cleaned containers due to potential fire and explosion hazard. Consult Product data sheet for Proper application instructions.

SECTION 8 - SAFE HANDLING RND USE INFORMATION

HYGIENIC PRACTICES:
Wash hands and other contaminated skin areas with warm soap and water before eating.

EYE PROTECTION:
Use chemical resistant splash type Goggles.

RESPIRATORY PROTECTION:
Respiratory Protective devices must be used when engineering and administration controls are not adequate 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. Where airborne contaminant concentrations are unknown, the use of a NIOSH/MSHR approved fresh-air supplied respirator is mandatory.

OTHER PROTECTION:
Use Chemical resistant gloves.
Use chemical resistant coveralls or apron to protect against skin and clothing contamination.
Use Protective cream where skin contact is likely.

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 (PAL) 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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure ................. : 6.00
Vapor Density ................. : -N/A
Boiling Range ................. : Lower - 241.0 F
                  Higher - 288.0F
Formula Weight Per Volume ........ : 13.9564 LB/GL
VOC IN LBS PER GALLON ........ : 2.466
Evaporation Rate ................. : 19.600 (Ether = 1)
%Volatile by Weight ............. : 17.679
%Volatile by Volume ........... : 34. 630
SECTION 10 - STABILITY AND REACTIVITY

INCOMPATIBILITIES:
Strong oxidizing agents.
Bases, Acids, Water, alcohols, amines, strong bases, metal components, surface active materials.
DECOMPOSITION: Carbon monoxide, carbon dioxide, hydrocarbon fragments, Nitrogen monoxide, nitrogen dioxide
Trace amounts of HCN.
CONDITIONS TO AVOID: Epoxy compounds under uncontrolled conditions. Isocyanate compounds under uncontrolled conditions. Heat, sparks, open flames.
POLYMERIZATION: Will not occur.
STABILITY: Stable.

SECTION 11 - TOXICOLOGICAL INFORMATION

OTHER;
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.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14 - TRANSPORT INFORMATION

DOT HAZARD CLASS ........................................................ :
TRANSPORTATION ASSISTANCE:
Contact Tnemec's Traffic department @ (816) 474-3400.

SECTION 15 - REGULATORY INFORMATION

FEDERAL REGULATIONS:
This Product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

N-BUTANOL (SKIN)
CAS# 71-36-3 PCT BY WT: 4.0700

ETHYL BENZENE
CAS# 100-41-4 PCT BY WT: 2.5500

DIMETHYLBENZENE
CAS# 133-20-7 PCT BY WT: 10.5610

STATE REGULATIONS:
SECTION 16 - OTHER INFORMATION

Prepared by . . . . . . . . . . . . : Kevin Settles
Date of issue . . . . . . . . . . . . : 02/10/2000
Last Revision Date . . . . . . . . : 06/06/1996
MSDS Prepared for . . . . . . . . : 
MSDS Last Prepared . . . . . . . : NONE
HMIS Information:
Health- 2*
Flammability- 3
Reactivity- 1

For specific information regarding occupational safely 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 Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of 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.