

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 : F066-WH01A 5G
PRODUCT CLASS : POLYAMIDE
TRADE NAME : SERIES 066 HI-BUILD EPOXOLINE
FORMULA ID : F066-WH01A
FORMULA VERSION NUMBER : 3
MSDS PREPARATION DATE : 01-22-98
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 TITANIUM DIOXIDE
CAS# 13463-67-7
TITANIUM DIOXIDE (TOTAL DUST)
PCT BY WT: 18.2900
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0010.000 MG/M3
OSHA PEL/TWA: 0010.000 MG/M3

2 MAGNESIUM SILICATE
CAS# 14807-96-6
TALC (NO ASBESTOS FIBERS/RESPIRABLE DUST)
PCT BY WT: 13.4620
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0002.000 MG/M3
OSHA PEL/TWA: 0002.000 MG/M3

3
CAS# 7631-86-9
AMORPH. SILICA (DIATOM. EARTH/UNCALCINED/TOTAL DUST)
PCT BY WT: 2.2580
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0010.000 MG/M3
OSHA PEL/TWA: 0006.000 MG/M3

4
CAS# 7727-43-7
BARIUM SULFATE (TOTAL DUST)
PCT BY WT: 26.8110
EXPOSURE LIMIT:
ACGIH TVL/TWA: 0010.000 MG/M3

TNEMEC COMPANY, INC.
MATERIAL SAFETY DATA SHEET

F066-WH01A 5G

OSHA PEL/TWA: 0010.000 MG/M3

5

CAS# 1344-28-1

ALUMINUM OXIDES

PCT BY WT: 2.0320

EXPOSURE LIMIT:

ACGIG TVL/TWA: 0010.000 MG/M3

6

POLYAMIDE RESIN

PCT BY WT: 13.9980

EXPOSURE LIMIT:

7 N-BUTYL ALCOHOL

CAS# 71-36-3

N-BUTANOL (SKIN)

PCT BY WT: 8.7020 VAPOR PRESSURE: 4.400 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH CEILING: 0050.000 PPM

OSHA CEILING: 0050.000 PPM

8

CAS# 100-41-4

ETHYL BENZENE

PCT BY WT: 2.5890 VAPOR PRESSURE: 6.000 MMHG @ 68F

EXPOSURE LIMIT:

ACGIG TVL/TWA: 0100.000 PPM

ACGIH TLV/STEL: 0125.000 PPM

OSHA PEL/TWA: 0100.000 PPM

OSHA STEL: 0125.000 PPM

9 XYLENE

CAS# 1330-20-7

DIMETHYLBENZENE

PCT BY WT: 10.8500 VAPOR PRESSURE: 5.100 MMHG @ 68F

EXPOSURE LIMIT:

ACGIG TVL/TWA: 0100.000 PPM

ACGIH TLV/STEL: 0150.000 PPM

OSHA PEL/TWA: 0100.000 PPM

OSHA STEL: 0150.000 PPM

This substance contains a material classified as a hazardous air
pollutant.

This product contains no reported carcinogens or suspected

TNEMEC COMPANY, INC.
MATERIAL SAFETY DATA SHEET

F066-WH01A 5G

carcinogens.

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:

EYE:

Severe irritation.
Redness, tearing, blurred vision.
May result in permanent visual loss.
Corrosive responses, burns.

SKIN:

Discoloration.
Potential sensitization
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:

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.

TARGET ORGANS:

- Can be corrosive to eyes.
- Can be corrosive to skin.
- Can cause respiratory tract irritation.
- Can cause lung damage.
- Can cause gastrointestinal tract irritation.
- Can cause liver damage.
- Can cause kidney damage.
- Can cause nervous system effects.

OTHER:

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

PRIMARY ROUTES OF ENTRY:

TNEMEC COMPANY, INC.
MATERIAL SAFETY DATA SHEET

F066-WH01A 5G

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:

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

FIRE AND EXPLOSIVE PROPERTIES OF THE CHEMICAL:

Flammability Classification	:	
Flashpoint	:	82.00
Explosion Level	:	Low - 1.00
		High - -N/A
Flammability Limits	:	Lower - -N/A
		Higher - -N/A
Auto-ignition Temperatures	:	-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. Not applicable.

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

TNEMEC COMPANY, INC.
MATERIAL SAFETY DATA SHEET

F066-WH01A 5G

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, uncleaned containers due to potential fire and explosion hazard. Consult product data sheet for proper application instructions.

SECTION 8 - SAFE HANDLING AND USE INFORMATION

HYGENIC 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/MSHA approved fresh-air supplied respirator is mandatory.

OTHER PROTECTION:

TNEMEC COMPANY, INC.
 MATERIAL SAFETY DATA SHEET

F066-WH01A 5G

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

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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	:	6.000
Vapor Density	:	-N/A
Boiling Range	:	Lower - 241.00 °F Higher - 288.00 °F
Formula Weight per Volume	:	14.25990 LB/GL
VOC IN LBS PER GALLON	:	3.1570
Evaporation Rate	:	19.6000 (Ether = 1)
% Volatile by Weight	:	22.140
% Volatile by Volume	:	45.040

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.

TNEMEC COMPANY, INC.
MATERIAL SAFETY DATA SHEET

F066-WH01A 5G

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:

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: 8.7020

ETHYL BENZENE
CAS# 100-41-4 PCT BY WT: 2.5890

DIMETHYLBENZENE
CAS# 1330-20-7 PCT BY WT: 10.8500

STATE REGULATIONS:

TNEMEC COMPANY, INC.
MATERIAL SAFETY DATA SHEET

F066-WH01A 5G

SECTION 16 - OTHER INFORMATION

Prepared by : Kevin Settles
Date of issue : 01-22-98
Last Revision Date : 05-21-94

MSDS Prepared for :

MSDS Last Prepared : NONE

HMIS Information: Health- 2 Flammability- 3
 Reactivity- 1

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 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.