

MATERIAL SAFETY DATA SHEET
 PREPARED BY: Environmental, Health and Safety Department
 MSDS PREPARATION DATE: 03/22/06

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER U. S. COATINGS
 ADDRESS 9200 Latty
 St. Louis, MO 63042
 INFORMATION 314-522-9552
 EMERGENCY 314-239-4703
 PRODUCT DESCRIPTION EPOXYGRIP® 2400 CONVERTER
 PRODUCT CODE EG3CAT2400

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1 CAS# 100-51-6 BENZYL ALCOHOL
 Pct By Wt: 35.00 Vapor Pressure: 13.300 MMHG @ 68F

| | | | |
|-------------------|------------------|--------------------|-----------------------|
| ACGIH TLV-TWA | NE | ACGIH TLV-STEL/C | NE |
| OSHA PEL-TWA | NE | OSHA PEL-STEL | NE |
| OSHA PEL-CEILING | NE | SKIN DESIGNATION | NE |
| ODOR THRESHOLD | 5.5 PPM | LD50 (INGESTION) | 1230 MG/KG (ORAL-RAT) |
| LC50 (INHALATION) | 1000 PPM/8 HOURS | AUTOIGNITION TEMP. | 435.6 C/816 F |
| FLASH POINT | 94 C/201F | | |
| Other Limits: | IARC-NO | NTP-NO | OSHA-NO |
| | | ACGIH-NO | |

2 POLYMER WITH BENZENEAMINE CAS# 135108-88-2 HYDROGENATED POLYMERIC CYCLOALIPHATIC POLYAMINES
 Pct By Wt: 30.00

| | | | |
|-------------------|---------|--------------------|----------|
| ACGIH TLV-TWA | NE | ACGIH TLV-STEL/C | NE |
| OSHA PEL-TWA | NE | OSHA PEL-STEL | NE |
| OSHA PEL-CEILING | NE | SKIN DESIGNATION | NE |
| ODOR THRESHOLD | NA | LD50 (INGESTION) | NA |
| LC50 (INHALATION) | NA | AUTOIGNITION TEMP. | NA |
| FLASH POINT | NA | | |
| Other Limits: | IARC-NO | NTP-NO | OSHA-NO |
| | | ACGIH-NO | NIOSH-NO |

3 CAS# 1477-55-0 BENZENE-1,3-DIMETHANAMINE
 Pct By Wt: 18.00

| | | | |
|-------------------|---------|--------------------|---------|
| ACGIH TLV-TWA | NE | ACGIH TLV-STEL/C | NE |
| OSHA PEL-TWA | NE | OSHA PEL-STEL | NE |
| OSHA PEL-CEILING | NE | SKIN DESIGNATION | YES |
| ODOR THRESHOLD | NA | LD50 (INGESTION) | NA |
| LC50 (INHALATION) | NA | AUTOIGNITION TEMP. | NA |
| FLASH POINT | NA | | |
| Other Limits: | IARC-NO | NTP-NO | OSHA-NO |
| | | ACGIH-NO | |

4 AMINE CAS# MIXTURE AMINE
 Pct By Wt: 6.00

| | | | |
|-------------------|---------|--------------------|----------|
| ACGIH TLV-TWA | NE | ACGIH TLV-STEL/C | NE |
| OSHA PEL-TWA | NE | OSHA PEL-STEL | NE |
| OSHA PEL-CEILING | NE | SKIN DESIGNATION | NE |
| ODOR THRESHOLD | NA | LD50 (INGESTION) | NA |
| LC50 (INHALATION) | NA | AUTOIGNITION TEMP. | NA |
| FLASH POINT | NA | | |
| Other Limits: | IARC-NO | NTP-NO | OSHA-NO |
| | | ACGIH-NO | NIOSH-NO |

5 NONYLPHENOL
 Pct By Wt: 5.00

| | | | |
|-------------------|-----------------------------|--------------------|----------|
| ACGIH TLV-TWA | NE | ACGIH TLV-STEL/C | NE |
| OSHA PEL-TWA | NE | OSHA PEL-STEL | NE |
| OSHA PEL-CEILING | NE | SKIN DESIGNATION | NE |
| ODOR THRESHOLD | NA | | |
| LD50 (INGESTION) | 1.246-2.462 G/KG (ORAL-RAT) | | |
| LC50 (INHALATION) | NA | AUTOIGNITION TEMP. | NA |
| FLASH POINT | 238 C/460 F | | |
| Other Limits: | IARC-NO | NTP-NO | OSHA-NO |
| | | ACGIH-NO | NIOSH-NO |

6 ALIPHATIC DIAMINE
 Pct By Wt: 4.00 Vapor Pressure: .020 MMHG @ 68F LEL: 1.2

| | | | |
|-------------------|---------------|--------------------|----------|
| ACGIH TLV-TWA | NE | ACGIH TLV-STEL/C | NE |
| OSHA PEL-TWA | NE | OSHA PEL-STEL | NE |
| OSHA PEL-CEILING | NE | SKIN DESIGNATION | NE |
| ODOR THRESHOLD | NA | LD50 (INGESTION) | NA |
| LC50 (INHALATION) | NA | AUTOIGNITION TEMP. | NA |
| FLASH POINT | 102 C / 216 F | | |
| Other Limits: | IARC-NO | NTP-NO | OSHA-NO |
| | | ACGIH-NO | NIOSH-NO |

7 AMINOPHENOL AMINOPHENOL
 Pct By Wt: 2.00

| | | | |
|---------------|----|------------------|----|
| ACGIH TLV-TWA | NE | ACGIH TLV-STEL/C | NE |
|---------------|----|------------------|----|

| | | | |
|-------------------|---------------------|--------------------|---------------------|
| OSHA PEL-TWA | NE | OSHA PEL-STEL | NE |
| OSHA PEL-CEILING | NE | SKIN DESIGNATION | NE |
| ODOR THRESHOLD | NA | LD50 (INGESTION) | 1.2 G/KG (ORAL-RAT) |
| LC50 (INHALATION) | NA | AUTOIGNITION TEMP. | NA |
| FLASH POINT | 140 C / 284 F (TCC) | | |
| Other Limits: | IARC-NO | NTP-NO | OSHA-NO |
| | | ACGIH-NO | NIOSH-NO |

This product contains no chemicals listed in the NTP Annual Report on Carcinogens, the IARC Monographs, listed by ACGIH, NIOSH or regulated as a carcinogen by OSHA.

IMPORTANT! This product may be blended with other products prior to use. Read all warnings and precautions on the MSDSs and labels of all products being blended as the combination may contain the hazards of each component.

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:

EYES: Can cause severe irritation, stinging, redness, tearing, swelling and eye damage. Can cause severe injury -- damage reversible. Can cause severe irritation and pain and may cause burns, necrosis and permanent injury. Burns of the eye may cause blindness. Pre-existing eye disorders may be aggravated by exposure to this material.

SKIN: Can cause irritation. Causes severe burns. May be absorbed through the skin. Sensitizer - Can cause allergic skin reaction which may be severe in certain individuals. May aggravate an existing dermatitis or other allergic reactions.

INHALATION: May cause irritation of the mucous membranes, cough, discomfort, rapid or difficult breathing or shortness of breath. Inhalation of vapors, aerosols or mists may severely damage contacted tissue and produce scarring in the respiratory system. May cause lung injury. May cause nausea, abdominal discomfort, vomiting, diarrhea, dizziness, drowsiness, faintness, lack of coordination and unconsciousness. Asthma, other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity), skin allergies and eczema may be aggravated by exposure to this material.

INGESTION: Moderately toxic by ingestion. May cause bleeding of the gastrointestinal tract and the vomiting of blood. Corrosive and may cause severe and permanent damage to mouth, throat and stomach.

POTENTIAL CHRONIC HEALTH EFFECTS: - Prolonged and repeated breathing of vapors, spray mist and/or sanding dust over a period of years may cause diseases of the lungs. - Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response. - Repeated and/or prolonged exposures may result in adverse eye effects such as conjunctivitis or corneal damage. - Prolonged or repeated exposure to vapors or mists may cause visual disturbances, including blindness. - Reports have associated repeated and prolonged occupational overexposure to solvents with brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. - Repeated and/or prolonged exposures may result in adverse skin effects such as defatting, rash, irritation or corrosion.

TARGET ORGANS: Overexposure to this material or its components has been suggested as a cause of the following effects in laboratory animals and/or humans, and may aggravate pre-existing disorders of these organs in humans:

- Eye damage
- Ingestion may produce liver, kidney and blood forming organ damage.
- Lung damage
- Skin damage
- Respiratory system
- Central nervous system (CNS)

SECTION 4 - FIRST AID MEASURES

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids apart; Seek medical attention.

IF ON SKIN: Remove contaminated clothing and flush contaminated skin with large amounts of water. If skin is damaged or if symptoms persist seek medical attention. Launder clothing before reuse.

IF INHALED: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; Keep person warm and quiet. If individual is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

IF SWALLOWED: DO NOT induce vomiting unless directed to do so by medical personnel. Aspiration of material into lungs can cause chemical pneumonitis which may be fatal. If individual is drowsy or unconscious, place on their side with head down. Seek medical attention. If possible, do not leave individual unattended. Give at least 3-4 glasses of water but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES OF THE CHEMICAL: (Unless otherwise noted, data are derived from ingredients existing in this formula at concentrations of 1% by weight or greater, i.e., the flashpoint given is the lowest flashpoint of the ingredients listed in section 2.)

Flashpoint : 201.0 F - (93.8 C)
 Explosion Level : Low - 1.2

Flammability Limits High - -N/A
 Lower - -N/A
 Higher - -N/A

Auto-ignition Temperature -N/A

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires; alcohol-type aqueous film-forming foam or water spray for large fires. Water may be ineffective but should be used to cool fire-exposed structures and vessels.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans and other non-explosion proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

FIRE-FIGHTING PROCEDURES AND EQUIPMENT: Self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use Dry chemical, Foam, CO2 or other approved method for treating a Class B fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed container may explode when exposed to extreme heat.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CLEAN-UP:

SMALL SPILL: Absorb liquid on inert material such as paper, vermiculite, floor absorbent, and transfer to hood.

LARGE SPILL: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, contain area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be absorbed with inert material such as sand, clay, earth, or floor absorbent, and shoveled into containers, with non-sparking tools. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify the proper authorities as required that a spill has occurred.

SECTION 7 - HANDLING AND STORAGE

HANDLING: SENSITIVITY TO STATIC DISCHARGE - Grounding/Bonding required

STORAGE: Keep container tight and upright to prevent leakage. Keep container closed when not in use. Do not store above 49 C/120 F. Do not transfer contents to bottles or unlabeled containers. Protect from freezing. Containers of this material may be hazardous when emptied because they retain product residues (vapor, liquid, and/or solid). When empty, may contain explosive vapors. Do not cut, puncture or weld on or near this container. All hazard precautions given in this data sheet must be observed for empty containers.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION/VENTILATION: Use only with adequate ventilation. Maintain continuous flow of fresh air. Do not breathe vapors, spray mists, or sanding dusts. Use air purifying respirators fitted with organic vapor/HEPA cartridges only if air monitoring of the work area demonstrates solvent and particulate levels do not exceed the respirator Maximum Use Concentration. Use only properly fitted NIOSH approved respirators. Follow respirator manufacturer's directions for use. Engineering or administrative controls should be implemented to reduce exposure. Paint spray booths, local exhaust, and general exhaust systems are advisable to minimize exposure.

PERSONAL PROTECTIVE EQUIPMENT: Use protective equipment to prevent contact with eyes, skin, or clothing. Use solvent resistant safety eyewear with splash guards. Protective garments such as nylon or Tyvek(R) coveralls typically used to protect from light overspray, splatters, etc. Saranex 23-P(R) coveralls recommended for messy applications. Nitrile or natural rubber gloves typically used to protect from minor contact. For prolonged contact, neoprene gloves are better and butyl are best.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance -N/A
 Odor -N/A
 Physical State LIQUID
 pH -N/A
 Vapor Density 7.60
 Boiling Range Lower - 266.0 F 130.0 C
 Higher - 275.0 F 135.0 C
 Freezing Point -N/A
 Melting Point -N/A
 Water Solubility -N/A
 Specific Gravity 1.062
 Formula Weight per Volume 8.8389 LB/GL
 VOC000 lbs./gal. or 0 g/l
 Evaporation Rate 1.180 (n-Butyl Acetate = 1)
 Viscosity -N/A
 % Volatile by Weight0000
 % Volatile by Volume0000
 Coeff of Water-Oil Distribution -N/A

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID AND INCOMPATIBILITIES: A reaction accompanied by large heat release occurs when the product, is mixed with acids. Heat generated may be sufficient to cause, vigorous boiling creating a hazard due to splashing or spattering of, hot material, Strong mineral acids, Acetic acid, Strong bases, Cleaning solutions, such as chromerge (sulphuric acid/dichromate) and, aqua regia, Epoxy resins under uncontrolled conditions, Oxidizing agents, N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrates or atmospheres with high nitrous oxide concentrations.

HAZARDOUS DECOMPOSITION PRODUCTS (Including Thermal Decomposition): Carbon dioxide and carbon monoxide, Aldehydes, Ammonia, Amides, Carbamates, Cyanogens, Isocyanates, Nitrogen oxides, Nitrosamines, Nitrogen oxide can react with water vapors to form corrosive nitric acid.

POLYMERIZATION: - Polymerization is not expected to occur. Considerable exothermic reaction with epoxy resins is possible.

STABILITY: - Stable under ordinary conditions of use and storage.

SECTION 11 - TOXICOLOGICAL INFORMATION

No additional toxicological data available. Please refer to Sections 2 & 3.

SECTION 12 - ECOLOGICAL INFORMATION

No ecological data available for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Do not incinerate closed containers.

SECTION 14 - TRANSPORT INFORMATION

| | | | |
|-----------------|------------------|--------------------|-------|
| DOT Hard Class: | 8 | DOT Packing Group: | III |
| DOT Label: | Corrosive Liquid | DOT Shipping Name: | Paint |
| DOT Placard: | Corrosive Liquid | UN Number: | 3267 |

SECTION 15 - REGULATORY INFORMATION

FEDERAL REGULATIONS:

SARA 313 INFORMATION This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
 NONYLPHENOL PCT BY WT: 5.0000

SECTION 16 - OTHER INFORMATION

FOR INDUSTRIAL USE ONLY: This product is for use by professional, trained personnel using proper equipment, and is not intended for sale to, or use by, the general public.

WARRANTY: Any recommendation of U.S. Coatings contained herein covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, U.S. Coatings makes no warranty or representation with respect thereto. Use or application of any U.S. Coatings product is at the discretion of the Buyer without liability or obligation whatsoever of U.S. Coatings.

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