

MATERIAL SAFETY DATA SHEET
PREPARED BY: Environmental, Health and Safety Department

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER ADDRESS	U. S. COATINGS 9291 WATSON INDUSTRIAL PARK St. Louis, MO 63126 314-522-9552 314-239-4703
INFORMATION EMERGENCY	EPOXYGRIP 2030 CONVERTER EG3CAT2030
PRODUCT DESCRIPTION	Heal th= 2*, Flammability= 2, Reactivity= 0
PRODUCT CODE	
HMS(R)	

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1 NONYLPHENOL CAS# 84852-15-3 PHENOL, 4-NONYL, BRANCHED
Pct By Wt: 7.00 Vapor Pressure: 1.000 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	NA	LD50 (INGESTION)	1.2-2.5 G/KG
LC50 (INHALATION)	NA	AUTOIGNITION TEMP.	NA
FLASH POINT	238 C/460 F		
Other Limits:	IARC-NO NTP-NO	OSHA-NO	ACGIH-NO

2 DIMETHYL BENZENE CAS# 1330-20-7 XYLENE
Pct By Wt: 6.00 Vapor Pressure: 5.100 MMHG @ 68F LEL: 1.1

ACGIH TLV-TWA	100 PPM	ACGIH TLV-STEL/C	150 PPM
OSHA PEL-TWA	100 PPM	OSHA PEL-STEL	150 PPM
OSHA PEL-CEILING	NE	SKIN DESIGNATION	NO
ODOR THRESHOLD	0.05 PPB	LD50 (INGESTION)	4.3 G/KG (ORAL-RAT)
LC50 (INHALATION)	5000 PPM/4H (RAT)	AUTOIGNITION TEMP.	530 C / 986 F
FLASH POINT	27 C / 80 F		
Other Limits:	NTP-NO IARC-NO	ACGIH-NO	OSHA-NO

3 CAS# 100-51-6 BENZYL ALCOHOL
Pct By Wt: 4.00 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

4 PHENYLETHANE CAS# 100-41-4 ETHYL BENZENE
Pct By Wt: 1.52 Vapor Pressure: 10.000 MMHG @ 68F LEL: 1.2

ACGIH TLV-TWA	100 PPM	ACGIH TLV-STEL/C	125 PPM
OSHA PEL-TWA	100 PPM	OSHA PEL-STEL	125 PPM
OSHA PEL-CEILING	NE	SKIN DESIGNATION	NO
ODOR THRESHOLD	NA	LD50 (INGESTION)	3500 MG/KG (ORAL-RAT)
LC50 (INHALATION)	50/G/M3/2H	AUTOIGNITION TEMP.	468 C / 810 F
FLASH POINT	15 C / 59 F		
Other Limits:	IARC-YES NTP-NO	OSHA-NO	ACGIH-NO NIOSH-NO

5 AMINOPHENOL AMINOPHENOL
Pct By Wt: 1.00

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 one or more reported carcinogens or suspect/experimental carcinogens which are noted IARC, NTP, OSHA, ACGIH or NIOSH in the Other Limits column.

This product contains one or more Hazardous Air Pollutants (HAPs) which are regulated under Section 112 of the Clean Air Act.

This product contains one or more reported mutagens or suspect/experimental mutagens.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding or grinding. Airborne nuisance particulates have an ACGIH TLV for Total Dust of 10 mg/M3.

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

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.

POTENTIAL ACUTE HEALTH EFFECTS:
EYES: Can cause severe irritation, stinging, redness, tearing, swelling and eye damage. 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: Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis. Corrosive to tissue. Material is readily absorbed through the skin in toxic amounts. Sensitizer - Can cause allergic skin reaction which may be severe in certain individuals. Persons with pre-existing skin disorders may be more susceptible to the effects of this material. 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. Can cause CNS effects including fatigue, weakness, headache, dizziness, nausea, vomiting, unconsciousness, coma, respiratory failure and death. Asthma, other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity), skin allergies and eczema may be aggravated by exposure to this material. Prolonged exposure can cause hearing impairment.

INGESTION: Moderately toxic by ingestion. May cause bleeding of the gastrointestinal tract and the vomiting of blood. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

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 overexposure to crystalline silica by inhalation may cause delayed lung injury/disease (silicosis). - Repeated and/or prolonged exposures may result in adverse eye effects such as conjunctivitis or corneal damage. - 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. - Overexposure can cause fibrosis (silicosis): Symptoms can include coughing, difficulty breathing, tightness of chest, hemorrhage, and wheezing. - Repeated and/or prolonged exposures may result in adverse skin effects such as defatting, rash, irritation or corrosion. - The adverse chronic health effects associated with crystalline silica include silicosis, cancer, scleroderma and tuberculosis. CARCINOGENICITY: - Ethyl benzene has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. IARC has classified ethyl benzene as a possible human carcinogen (Group 2B).

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:

- Anemia
- Blood disorders
- Cardiac abnormality
- Eye damage
- Kidney damage
- Liver abnormalities
- Lung damage
- Menstrual and fertility disorders
- 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 80.0 F (26.6 C)
 Explosion Level Low - 1.1 High - 7.1
 Flammability Limits Lower - -N/A
 Higher - -N/A

Auto-ignition Temperature -N/A °F

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 -N/A
 pH -N/A
 Vapor Density 7.60
 Boiling Range Lower - 266.0 F 130.0 C Higher - 288.0 F 142.2 C
 Freezing Point -N/A °F
 Melting Point -N/A °F
 Water Solubility -N/A
 Specific Gravity 1.628

Formula Weight per Volume 13.5463 LB/GL
 VOC 1.035 lbs./gal. or 124 g/l
 Evaporation Rate 1.180 (n-Butyl Acetate = 1)
 Viscosity -N/A
 % Volatile by Weight 7.6595
 % Volatile by Volume 14.3074
 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, Hydrofluoric acid, Cleaning solutions, such as chromerge (sulfuric acid/dichromate) and, aqua regia, 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, Ammonia, Amides, Carbamates, Cyanogens, Various hydrocarbons, Isocyanates, Nitrogen oxides, Nitrosamines.

POLYMERIZATION: - Polymerization is not expected to occur.

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 Hazard Class: 3 DOT Packing Group: III
 DOT Label: Flammable Liquid DOT Shipping Name: Paint
 DOT Placard: Flammable UN/NA Number: 1263

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:

ETHYL BENZENE CAS# 100-41-4 PCT BY WT: 1.5170

XYLENE CAS# 1330-20-7 PCT BY WT: 6.1260

STATE REGULATIONS: PER CALIFORNIA'S PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause cancer.

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.

THE INFORMATION CONTAINED HEREIN IS INFORMATION RECEIVED FROM OUR RAW MATERIAL SUPPLIERS AND OTHER SOURCES AND IS BELIEVED TO BE RELIABLE. THIS DATA IS NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH U.S. COATINGS ASSUMES LEGAL RESPONSIBILITY.