

Material Safety Data Sheet

Section I

Manufacturer's Name

Coatings For Industry, Inc.

Emergency Response #

1-800-535-5053

Non-Emergency #

215-723-0919

Address

319 Township Line Road
Souderton, Pa 18964

Trade Name & Synonyms

Wearcoat 495 Part B

Product Class

Epoxy Resin Hardener

HMIS Rating

Health 2

Fire 1

Reactivity 1

Section II - Hazardous Ingredients

	Abbr.	Weight %	TLV	PEL	CAS #
Benzyl alcohol	BZOH	30-60	n/e	n/e	100516
Meta-Xylenediamine	MXDA	< 10	0.1 mg/m 3 (c)	0.1 mg/m 3 (c)	1477550
4,4'-Methylenebiscyclohexanamine		< 5	n/e	n/e	1761713
Trimethylhexamethylenediamine		<5	n/e	n/e	25620580
Isophorone diamine		<10	n/e	n/e	2855132
Aliphatic Amine		<5	n/e	n/e	*
Polyoxypropylenediamine		10-20	n/e	n/e	9046100
Aliphatic Amine		< 20	n/e	n/e	*
Cycloaliphatic amine		<10			
Cycloaliphatic amine		<10	n/e	n/e	*
Cycloaliphatic amine		< 25	n/e	n/e	*

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) as established by the American Conference of Governmental Industry Hygienists. "STEL" indicated a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit". "n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

Section III - Physical Data

Boiling point ~~~~~ >350
Volatile % ~~~~~ 0
Evaporation Rate (butyl acetate=1) ~~~<1
Vapor Density (air=1) ~~~~~ >1
Specific Gravity ~~~~~ 1.01
VOC ~~~~~ <25
pH (5% solution or slurry in water): ~9.5
Percent solids by weight: ~~~~~ 100
Solubility in water: ~~~~~ Negligible

Section IV - Fire and Explosion Hazard Data

Flash Point ~~~~~ > 200 degrees F.

Special Fire Fighting Procedures

Firefighters should wear self-contained breathing apparatus and full protective gear (butyl rubber). Keep containers cool with water spray.

Unusual Fire & Explosion Hazards ~~ Personnel in vicinity and downwind should be evacuated. Water or foam may cause frothing. Sudden reaction and fire may result if mixed with oxidizing agent.

Hazardous product of combustion:

Oxides of carbon, oxides of nitrogen, ammonia. Toxic smoke and vapors may form during combustion.

Section V - Health Hazard Data

Primary routes of exposure: Skin contact, Skin absorption, Inhalation.

Symptoms of acute overexposure:

Skin: Corrosive, Severe irritation (defatting, itching, redness, blistering), pain, burns and permanent damage. Product is absorbed through the skin and may cause nausea, headache and general discomfort. Potential sensitizer.

Inhalation: Corrosive. Can cause irritation of respiratory tract and mucous membranes (nasal discharge, coughing, discomfort). Over exposure to fumes or vapors may cause lung injury. May cause nausea and vomiting. Inhalation of vapors, aerosols and mists may severely damage contacted tissue and produce scarring.

Eyes: Corrosive. Severe irritation (redness, swelling), pain or burns; may cause permanent eye injury (including blindness). Vapors can cause lacrimation, conjunctivitis, and corneal edema.

Section V - Health Hazard Data (Cont'd)

Ingestion: May cause burns of mouth, throat and stomach with abdominal and chest pains, nausea, vomiting, diarrhea, thirst, weakness and collapse.

Effects of chronic overexposure:

Repeated skin contact or inhalation may cause sensitization/dermatitis, with asthmatic or allergic symptoms on subsequent exposure (rash, defatting, nausea, headaches). Repeated or prolonged exposure may cause adverse respiratory effects (cough, tightness of chest, shortness of breath, dryness of nasal passages), eye effects.

Medical conditions which may be aggravated by exposure:

May aggravate existing skin disorders and allergies, eye disease, and respiratory conditions (i.e. bronchitis, emphysema, inflammatory or fibrotic respiratory disease). Repeated inhalation may cause lung injury.

Other effects:

Corneal edema may give rise to a perception of "blue haze" or "fog" around lights which is transient and has no known residual effect.

Section VII - Spill or Leak Procedures

Cleanup:

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly. Flush area with water to remove trace residue. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing.

Spill control:

Avoid personal contact. Eliminate ignition sources. Ventilate area.

Containment:

Dike, contain and absorb with clay, sand or other suitable material.

Special procedures:

Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

Disposal:

If this material becomes a waste, it would not be a hazardous waste by RCRA criteria (40CFR 261). Dispose of according to applicable federal, state, and local regulations.

Section VIII - Special Protection Information

Respiratory Protection - None needed in normal use with proper ventilation. In poorly ventilated areas, use NIOSH approved organic vapor masks.

Ventilation - Local exhaust is recommended for prolonged or repeated use. Effective mechanical ventilation is adequate for occasional use.

Personal protective equipment:

Eye and face protection - Splash proof goggles and face shield.

Skin Protection - Chemical resistant rubber gloves and other protective clothing as required to prevent skin contact.

Other emergency controls - Have emergency shower and eye wash stations available.

Section IX - Special Precautions

Storage precautions:

Keep away from acids, alkalis and oxidizers. Store in a cool, dry, ventilated area in closed containers. Keep away from high temperatures (<100 F) and flames. Do not store in reactive metal containers.

Handling precautions:

Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Avoid breathing vapors. Handle in well ventilated work area.

Laundry contaminated clothing and protective gear before reuse. Discard contaminated leather articles.

Handle mixed resin and hardener in accordance with the potential hazard of the curing agent used. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame cutting operations and to protect against nuisance dust during sanding/grinding of cured product.

Do not use sodium nitrite or other nitrosating agents in formulations containing this product, cancer-causing nitrosamines could be formed.

Section X-Toxicological Information

Acute oral effects:

LD50 (rat): >1000 mg/kg (estimate)

to the skin

Acute inhalation effects:

LC50 (rat): Not available

Subchronic effects:

Not available

Carcinogenicity, teratogenicity, and mutagenicity:

Not available.

Acute dermal effects:

LD50 (rabbit): >1000 mg/kg (estimate)

Components have been found to be corrosive

of a rabbit.

Eye irritation:

Not available

Chronic effects:

Components have caused allergic sensitization in animals.

Toxicological information on hazardous chemical constituents of this product:

LC50 Constituent	Oral LD50	Dermal LD50	Inhalation
	(rat)	(rabbit)	(rat, 4 hours)
Benzyl alcohol	1230 mg/kg	2000 mg/kg	>2000 ppm
Meta-Xylenediamine	930 mg/kg	2000 mg/kg	350 ppm
4,4"-Methylenebiscyclohexanamine	>625 mg/kg	>2110 mg/kg	>10 mg/l
Trimethylhexamthylenediamine	n/d	n/d	n/d
Isophorone diamine	n/d	n/d	n/d
Aliphatic Amine	n/d	n/d	n/d
Polyoxypropylenediamine	480-1100 mg/kg	760-2090 mg/kg	n/d
Aliphatic Amine	>500 mg/kg	>1000 mg/kg	n/d
Cycloaliphatic amine			
Cycloaliphatic amine	n/d	n/d	n/d
Cycloaliphatic amine	n/d	n/d	n/d

Section XI- Supplemental Information

TSCA:

All ingredients of this product are listed, or are exempt from listing, on the TSCA Inventory.

SARA Section 313 Listed Ingredients ~ This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

Section XI- Supplemental Information (Cont'd)

D.O.T. Proper Shipping Name ~~~~ Corrosive liquid, basic, organic, n.o.s.
 Technical name ~~~~~~ Modified Cycloaliphatic Polyamine
 UN Number ~~~~~~ UN3267
 Packing group ~~~~~~ III
 D.O.T. Hazard Class ~~~~~~ 8
 IMDG Page No. ~~~~~~ 8147
 Emergency Response Guide No. ~~~~ 153

Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
Benzyl alcohol	No	NO	No	Not Required
Meta-Xylenediamine	No	No	No	Not Required
4, 4'-Methylenebis(cyclohexanamine)	No	No	No	Not Required
Trimethylhexamethylenediamine	No	No	No	Not Required
Isophorone diamine	No	No	No	Not Required
Aliphatic Amine	No	No	No	Not Required
Polyoxypropylenediamine	No	No	No	Not Required
Aliphatic Amine	No	No	No	Not Required
Cycloaliphatic amine	No	No	No	Not Required
Cycloaliphatic amine	No	No	No	Not Required
Cycloaliphatic amine	No	No	No	Not Required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substance on the SARA Section 301 Extremely Hazardous Substances list.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. Consult the appropriate regulations for specific requirements.

Classification of this material for SARE Sections 312 hazardous materials inventory reporting:

Immediate health hazard, Delayed health hazard

Notice - This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is express or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material, such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state and local laws and regulations.