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Product Name: Duraguard 120 (Part B-Hardener)

ChemMasters

Material Safety Data Sheet

1. Chemical Product and Company Information

Product Name: Duraguard 120 (Part B-Hardener)
Product Description: 2-Component 100% Solid Epoxy Coating System

ChemMasters
300 Edwards Street
Madison, Ohio 44057
440-428-2105

In Case of Emergency Contact:
CHEMTREC 800/424-9300

2. Hazards Identification

WARNING
CORROSIVE LIQUID
Causes eye burns
Causes skin burns and/or allergic skin reaction
May cause allergic respiratory reaction

WHMIS Classification: D2B (Toxic), E (Corrosive); Symbols: Stylized T & Corrosive

Potential Health Hazards - Acute

Eye: May cause chemical burn—damage irreversible.

Skin: Sensitizer — may cause allergic reaction which can be severe in certain individuals. Moderately toxic, may cause chemical burns.

Inhalation: May cause headaches, nausea, dizziness and respiratory irritation. Sensitizer— may cause allergic respiratory reaction.

Ingestion: No specific information available. Moderately toxic. May cause gastrointestinal irritation, ulceration and/or burns of mouth and throat.

Potential Health Effects - Chronic

Carcinogenicity:	NTP	IARC Monographs	OSHA Regulated
	NO	NO	NO

3. Composition / Information on Ingredients

Hazardous Components	CAS #	Exposure Limits			% by Wt
		OSHA (PEL/TWA)	ACGIH (TLV/TWA)	OTHER	
Modified Aliphatic Amine	mixture	—	—	—	55%
Nonylphenol	25154-52-3	—	—	—	<20%
Diethylenetriamine	111-40-0	1 ppm	1 ppm(skin)	—	<5%
Tetraethylenepentamine*	112-57-2	—	1 ppm	—	>5%
Phenol, 4,4-(1-Methylethylidene)Bis	80-05-7			—	<5%

* Tetraethylenepentamine (TEPA) as reported here is a complex mixture of TEPA and other ethyleneamines. Some of these amines include Triethylenetetramine (112-24-3) and Diethylenetriamine (111-40-0). The ACGIH has established a TLV of 1 ppm for airborne concentrations of Diethylenetriamine with a skin hazard notation.

4. First Aid Measures

Eye: Immediately flush with plenty of water for at least 15 minutes. Get medical attention..

Skin: Flush immediately with plenty of water for at least 15 minutes while removing contaminated clothing. In case of burn, do NOT apply greases or ointments, seek medical attention. Victims of a major skin area contact should remain under medical observations for at least 24 hours due to possible delayed effects.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do NOT induce vomiting. Give victim a glass of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.

5. Fire Fighting Measures

Flash Point (method used)**:** >212^{o}F

Flammable Limits (% volume in air)**: Lower** = No data available **Upper** = No data available

Auto Ignition Temperature: No data available

Extinguishing Media: Dry chemicals, CO2, Halon, water spray or foam.

Hazard Combustion Products: May generate toxic or irritating combustion products including carbon monoxide and/or nitrous oxide.

Fire Fighting Instructions: Remove all ignition sources. Wear self contained breathing apparatus and complete personal protective equipment when entering confined areas where potential exposure to vapors or products of combustion exists.

6. Accidental Release Measures

Spill: Cover minor spills with sodium bisulfate to neutralize and reduce vapors. Absorb with inert material, then place in chemical waste container for later disposal. Flush area with water. Prevent washings from entering waterways.

7. Handling and Storage

Handling: Use with adequate ventilation. Avoid contact with skin and eyes. Always use good industrial hygiene practices and safety guidelines when dealing with this potentially hazardous product.

Storage: Keep containers tightly closed and store in a dry, well ventilated area, away from oxidizers.

8. Exposure Controls / Personal Protection

Exposure Controls: Mechanical and local exhaust should be used. A source of clean water should be available for flushing eyes and skin.

Personal Protection: Protective clothing, chemical splash goggles, rubber gloves and an organic vapor respirator when TLV is exceeded.

9. Physical and Chemical Properties

Appearance: Amber liquid of medium viscosity

Odor: Ammoniacal odor

Boiling Point: No data available

Melting Point: Not applicable

Vapor Pressure (mm/Hg)**:** No data available

Vapor Density (Air = 1)**:** No data available

Solubility in Water: Partial

Specific Gravity (H20 = 1)**:** 0.98

Evaporation Rate (n-Butyl Acetate = 1)**:** Not applicable

10. Stability and Reactivity

Chemical Stability: Stable
Conditions to Avoid: Excessive heat
Incompatibility (materials to avoid)**:** Oxidizing agents, acids. Caution—N-Nitroamines, 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 or By-products: Thermal decomposition may yield carbon monoxide, carbon dioxide and/or oxides of nitrogen. Nitrogen oxide can react with water vapors to form corrosive nitric acid. (TLV=2 ppm).
Hazardous Polymerization: Will not occur

11. Toxicological Information

Components	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Nonylphenol	1.62 g/kg	>200 mg/kg	>2 mg/l
Tetraethylenepentamine	205 mg/kg	660 mg/kg	—
Bisphenol A	3250 mg/kg	3000 mg/kg	—

12. Ecological Information

Possible land, air and water pollutant. No exact data available.

13. Disposal Considerations

Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area.
Under RCRA 40 CFR 261 this material is hazardous waste number D002.

14. Transportation Information

For U S National, International and Air Shipments:
Shipping Description: Corrosive Liquids, N.O.S. (Modified Polyamine), 8, UN1760, III
Emergency Response Guide Number: 154
Hazard Class: Corrosive

15. Regulatory Information

OSHA: This material is hazardous by definition of Hazardous Communications Standard (29 CFR 1910.1200)
CERCLA Reportable Quantity: Not applicable
SARA Title III:
Section 311/312 hazard categories: acute health
Section 313 reportable ingredients:

Components	CAS #	Maximum %
Phenol , 4,4 - (1-Methylethylidene) Bis	80-05-7	5 %

16. Other Information

MSDS Status: Revised 4/10/10

Industrial Abbreviation Legend on page 4 of this MSDS.

Industrial Abbreviation Legend

ACGIH	American Conference of Governmental Industrial Hygienists	mg/m^3	milligrams per cubic meter
CAA	Clean Air Act (EPA)	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA)	NTP	National Toxicology Program
CNS	Central Nervous System	OSHA	Occupational Safety and Health Administration
CWA	Clean Water Act (EPA)	PEL	Permissible Exposure Limit
DOT	Department of Transportation	ppm	parts per million
EPA	Environmental Protection Agency	RCRA	Resource Conservation and Recovery Act (EPA)
g/kg	grams per kilogram	SARA	EPA's Superfund Amendment and Reauthorization Act (EPA)
IARC	Internal Agency for Research on Cancer	STEL	Short-Term Exposure Limit, ACGIH terminology
LC50	Lethal Concentration in which 50% of the test animals are expected to die	TLV	Threshold Limit Value
LD50	Lethal Dose in which 50% of the test animals are expected to die	TWA	Time-Weighted Average

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