PRECISION PERFORMANCE COATINGS
incorporated

LZME Curative-007 **REVISION DATE: 01/10/15**

SAFETY DATA SHEET
LZME Curative-007

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: LZME Curative-007

MANUFACTURER: Precision Performance Coatings, Inc.
1480 S. Industrial Park Road
Lincolnton, NC 28092

DATE SUBMITTED: 01/10/2015

Telephone Number-24-Hour Emergency Assistance
Infotrac 800-535-5053
Infotrac Int'l 352-323-3500

Telephone Number-Technical Service CHEMICAL 704-736-0048

FAMILY: Polyurethane

CHEMICAL NAME: Aromatic Amines

FORMULA: Not Applicable

DOT SHIPPING NAME: Hazardous Substances, Liquid, N.O.S.(Aromatic Amines)

DOT NON-BULK HAZARD CLASSIFICATION: Non-Regulated

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview
Color: Amber **Form:** Liquid **Odor:** Amine

May be harmful if swallowed. Avoid contact with this product. May cause sensitization by skin contact. Liver and kidney effects have been produced in laboratory animals. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects:

Inhalation: Inhalation of vapors in high concentration may cause irritation to respiratory system.

Eyes: Irritating to eyes.

Skin: Irritating to skin.

Ingestion: Harmful if swallowed.

Primary Routes of Exposure: Routes of Entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute Toxicity: Of low toxicity after single ingestion.

(Cont. HAZARDS IDENTIFICATION)

Assessment Other Acute Effects: Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Chronic Toxicity:

Carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen. The whole of the information assessable provides no indication of a carcinogenic effect.

Potential Environmental Effects:

Aquatic Toxicity: May cause long-term adverse effects in the aquatic environment.
See section 11 for additional Toxicological information.
See section 8 for Occupational Exposure Limit.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Component	CAS-No	Percent%
Ethacure 300	106264-79-3	45-55
POLYTETRAMETHYLENE ETHER GLYCOL	25190-06-1	45-55
Catalyst		<.05

4. FIRST AID MEASURES

Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water. Wash clothing before reuse.
Inhalation: Move to fresh air.
Ingestion: If swallowed, seek medical advice immediately and show this container or label. Rinse mouth with water.
Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Carbon dioxide, dry chemicals, foam, water spray(mist).

Combustion/explosion hazards In case of fire and/or explosion do not breathe fumes.

Hazardous Combustion Products Oxides of carbon and nitrogen. Oxides of sulfur.

Protective Equipment and Precautions for Firefighters Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Ventilate the area. Avoid contact with the skin and the eyes.

Environmental Precautions Contain any spill with dikes or absorbents to prevent migration and entry into sewers or streams. May require excavation of contaminated soil.

Methods for Cleaning up Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent.

7.HANDLING AND STORAGE

Handling Procedures Mechanical ventilation is recommended. Local exhaust is needed at source of vapors.

Storage Procedures Keep under inert gas. Keep away from heat. Keep away from humidity.

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment:

Eye/face Protection Chemical goggles or face shield with safety glasses.

Skin Protection Wear protective gloves/clothing.

Hand protection Gloves resistant to chemical permeation.

Respiratory protection Approved supplied-air respirator when exposed to vapours from heated material.

9.PHYSICAL AND CHEMICAL PROPERTIES

Flash point	176°C(PMCC)
Flammable limits (LEL,UEL)	No data available
Form	Liquid
Vapor pressure	<0.89 mmHg146°C
Color	Amber.
Density	1.096 g/ml
Odor	Amine.
Vapor density	No data available
Water Solubility	<1% (20°C)
Boiling Point	Decomposes at 353°C
Melting/freezing point	No data available

(Cont. PHYSICAL AND CHEMICAL PROPERTIES)

Viscosity, dynamic	No data available
Viscosity, kinematic	0.00691 m2/s(20°C)
Partition Coefficient (log pow)	2.63(20°C)
Flammability (solid, gas)	Not applicable
Weight/gal.	9.15
Explosive properties	Not applicable

10.STABILITY AND REACTIVITY

Chemical Stability Stable.

Conditions to Avoid Keep away from humidity. Avoid all sources of ignition: heat, open flame, sparks. Avoid electro-static discharge.

Materials to Avoid Strong acids. Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products Oxides of carbon, nitrogen and sulphur.

Hazardous Polymerization None under normal processing.

11.TOXICOLOGICAL INFORMATION

Routes of Exposure No information available

Health and hazardous information:

Acute toxicity May be harmful if swallowed**.**

Skin Contact Not irritating**.**

Eye Contact Not irritating.

Inhalation Not irritating.

Skin sensitization Yes.

Carcinogenic Effects Oral carcinogenicity test: (2 years): Did not show carcinogenic effects in animal experiments.

Mutagenic Effects Ames test: Positive and negative results obtained. In vitro mutagenicity test: Not genotoxic in mammalian cell systems. Mouse micro nucleus test: negative.

Reproductive Effects No information available.

Target Organ Effects No information available.

Chronic Effects Rats given this product in the diet for up to 90 days showed increased liver metabolic activity. There were kidney effects observed that were unique to male rats. These effects were similar to changes that have been observer in male rats given hydrocarbons. These effects resolved in animals allowed 30 days recovery. Rats treated for 24 months did not have microscopic alterations in any tissues compared to control animals. Tumors seen in control and treated animals were usual for the age and strain of rats. Details of these studies are available upon request.

Aspiration Hazard Statement: No information available.

Signs and Symptoms of Overexposure: No information available.

(Cont. TOXICOLOGICAL INFORMATION)

LD50 Oral: **Rat Oral LD50:**1515 mg/kg(rat)
Rabbit dermal LD50:>2000 mg/kg (rabbit)
LD50 Oral: Based on the following two materials contained herein this product:
Methyl 1,2,2,6,6-pentamethyl-4-piperdyl sebacate; bis(1,2,2,6,6-pentamethyl-4-piperdyl sebacate
Type of Value: LD50
Species: Rat
Value: 3,230 mg/kg (Conventional Method)
Other Data Based on test data, may cause sensitization by skin contact.

12.ECOLOGICAL INFORMATION

Ecotoxicity

LC50	LC50/96h/rainbow trout:7.3mg/L
EC50	EC50/48h/Daphnia :0.9mg/L
EC50	EC50/72h/algae: (Selenastrum capricornutum)7.6mg/L

Ecotoxicity Effects Very toxic to aquatic organisms.

Persistance/Degradability Not readily biodegradable. (OECD 301 D)

Bioaccumilation/Accumulation No information available.

Mobility in Environmental Media No information available.

Other Adverse Effects May cause long-term adverse effects in the aquatic environment**.**

Fish: ** **Acute:** OECD Guideline 203 Lepomis Machrochirus/LC50 (96 h): 0.97 mg/L
OECD Guideline 203 Oncorhyncus mykiss/LC50 /(96 h): 7.9 mg/L
OECD Guideline 203 semistatic
Brachydanio rerio/LC50 (96 h): 0.9 mg/L
The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been Tested.

Aquatic Invertebrates: ****Acute:** OECD Guideline 202, part 1 Daphnia Magna (NOEC) 21 d 1 mg/L
Chronic: OECD Guideline 211 semistatic Daphnia Magna (NOEC) 21d 1 mg/L
The details of the toxic effect relate to the nominal concentration. The product has low Solubility in the test medium. An aqueous solution prepared with solubilizers has been Tested.

Aquatic Plants: ** Toxicity to aquatic plants:
OECD Guideline 201 static
Green Algae/EC50 (72 h): 1.68 mg/L
The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

Microorganisms: ** Toxicity to microorganisms:
OECD Guideline 209 Aerobic
Activated sludge, domestic/EC50 (3 h): >100 mg/L

(Cont. ECOLOGICAL INFORMATION)

Degradability/Persistence**
Biological/Abiological Degradation**

Test Method:	OECD 301°F; ISO 9408; 92/69/EEC, C.4-D(aerobic), aerobic microorganisms
Method of Analysis:	DOC reduction
Degree of Elimination:	38% (28 d)
Evaluation:	Not readily biodegradable (by OECD criteria). Moderately/partially biodegradable.

Other Adverse Effects:**
Do NOT allow this product to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

**Based on the following two materials contained herein this product:
Methyl 1,2,2,6,6-pentamethyl-4-piperdyl sebacate; bis(1,2,2,6,6-pentamethyl-4-piperdyl sebacate

13.DISPOSAL CONSIDERATIONS

Waste Disposal Method This material and its container must be disposed of as hazardous waste. Dispose in a safe manner in accordance with local/national regulations.

14.TRANSPORT INFORMATION

DOT

UN No.	3082
Proper Shipping Name	Environmentally hazardous substance liquid, N.O.S. (6-Methyl-2,4-bis (methylthio)phenylene-1,3-diamine)
Hazard Class	9
Packing Group	III
Marine Pollutant:	Y.
Description	UN 3082 Environmentally hazardous substance liquid,N.O.S.(6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine), 9, III, Marine pollutant.

IMDG/IMO

UN-No	3082
Proper Shipping Name	Environmentally hazardous substance liquid, N.O.S.(6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine)
IMO Class	9
Packing Group	III
IMO Labeling and Marking	9 + Marine Pollutant Marking
EmS	F-A, S-F
Marpol-Annex II	Not determined.
Marpol-Annex III	Marine Pollutant.
Transport Description	UN 3082 Environmentally hazardous substance, liquid, n.o.s.(6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine),9, III, Marine pollutant.

IATA/ICAO

UN-No	3082
Proper Shipping Name	Environmentally hazardous substance liquid, N.O.S.(6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine).

(Cont. TRANSPORT INFORMATION)

IATA/ICAO Class	9
Packing Group	III
IATA/ICAO Labeling/ Marking	9+ 'Environmentally hazardous Substance' mark
Passenger Aircraft	Maximum net quantity per package: 450 L
Cargo Aircraft Only	Maximum net quantity per package: 450 L
Transport Description	UN 3082 Environmentally hazardous substance, liquid, n.o.s.(6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine),9, III.

15. REGULATORY INFORMATION

US Federal Regulations

Toxic Substances Control Act (TSCA)

Included in the EPA TSCA Chemical Substance Inventory by its components CAS No. 102093-68-5 & 104983-85-9.

Toxic Substances Control Act (TSCA)12(b) Component(s)

None

OSHA Hazard Communication Standard (29 CFR1910.1200)hazard class(es).

Toxic by Ingestion. Mild skin irritant.

EPA SARA Title III Section 312 (40CFR370) hazard class

Immediate (acute) Health Hazard. Delayed (Chronic).

EPA SARA Title III Section 313(40CFR372) toxic chemicals above "de minimis" level

None

WHMIS

Class D, Division 2B, Marine Pollutant.

16. OTHER INFORMATION

Revision

Issue Date: 01/10/15
Revised By: C. M. Spearman
Approved By: H. E. Carmichael