



SAFETY DATA SHEET

METALLIC EPOXY PART B
SDS REVISION DATE: JANUARY 11, 2015

1ST EDITION

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Metallic Epoxy Part B Hardener
PRODUCT CODES: 1950
MANUFACTURER: DURACORP
DIVISION: Floor Coating
ADDRESS: 2664 Vista Pacific, Oceanside CA 92056

**CHEMICAL SPILL
EMERGENCY PHONE:** CHEMTREC: 800-424-9300

OTHER CALLS:

PRODUCT USE: Floor Coating
PREPARED BY: Proline

SECTION 2: HAZARDS IDENTIFICATION

GHS classification Acute toxicity - Oral Category 4
Skin corrosion - Category 1C
Serious Eye Damage - Category 1
Skin sensitization - Category 1
Specific target organ toxicity - repeated exposure - Oral Category 2

GHS label elements Hazard pictograms/symbols



Signal Word: Danger

Hazard Statements: H302:Harmful if swallowed.
H314:Causes severe skin burns and eye damage.
H317:May cause an allergic skin reaction.
H373a:May cause damage to organs through prolonged or repeated exposure if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	WGT%	CAS#
Modified cycloaliphatic Amine Reaction Product	100%	TS

SECTION 4: FIRST AID MEASURES

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is required. Promptly seek medical attention.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing, preferably under a safety shower. Seek medical attention immediately. Avoid prolonged or repeated contact to skin. Wash thoroughly after handling.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

INHALATION: Remove to fresh air if effect occurs. Consult medical personnel.

NOTES TO PHYSICIANS: Corrosive. May cause stricture. lavage is performed, suggest endotracheal and/or esophagoscopy control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. Application of corticosteroid cream has been effective in treating skin irritation



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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR (% BY VOLUME): UPPER LIMITS: N/A LOWER LIMITS: N/A

FLASH POINT: 213 °F (100.56°C)

METHOD USED: PMCC

NFPA HAZARD RATING: 4 = *EXTREME*; 3 = *HIGH*; 2 = *MODERATE*; 1 = *SLIGHT*; 0 = *INSIGNIFICANT*

**NFPA HAZARD
CLASSIFICATION:**

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

OTHER: N/A

**HMIS HAZARD
CLASSIFICATION:**

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

EXTINGUISHING MEDIA: Water Fog, Alcohol Foam, CO₂, or Dry Chemical

FIRE FIGHTING PROCEDURES: Wear positive pressure SCBA

UNUSUAL FIRE AND EXPLOSION HAZARDS: Use full protective clothing (see section 8).

SECTION 6: ACCIDENTAL RELEASE MEASURES

LARGE SPILL: Dike up and pump into appropriate containers.

SMALL SPILL: Use noncombustible absorbent materials and shovel into suitable containers.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Ground all transfer equipment. Hold bulk storage under a nitrogen blanket. This product should not come in contact with copper or copper-bearing alloys. Good general housekeeping procedure should be followed. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINE(S): N/A

VENTILATION: Control airborne concentration below the exposure guideline. Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air purifying respirator.

EYE PROTECTION: Use chemical goggles. If vapor exposure causes eye irritation, use a full-face respirator. Eye wash fountain should be located in immediate work area.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Contaminated leather items, such as shoes, belts and watchbands, should be removed and destroyed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Straw colored liquid.

ODOR: Amine Odor

PHYSICAL STATE: Liquid

BOILING POINT: 405° F (207° C)

VAPOR PRESSURE < 10.37 mmHg

VAPOR DENSITY (AIR = 1): 5.88

SPECIFIC GRAVITY (H₂O = 1): 1.01

viscosity: 450mPa.s at 73F(23C)

SECTION 10: STABILITY AND REACTIVITY

CONDITIONS TO AVOID (STABILITY): Can react strongly with epoxy resins at elevated temperatures.

INCOMPATIBILITY (MATERIAL TO AVOID): Epoxy resins under uncontrolled conditions..

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Nitrogen oxides when burned.

HAZARDOUS POLYMERIZATION: Will not occur.



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SECTION 11: TOXICOLOGICAL INFORMATION

11.0 TOXICOLOGICAL INFORMATION

11.1 Likely routes of exposure: N/A

11.2 Symptoms related to the physical, chemical and toxicological characteristics:

Ingestion: Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat. Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Skin Contact: Prolonged or widespread skin contact may result in absorption of harmful amounts.

Irritation:

Skin: Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage. Skin contact has caused allergic skin reactions in certain sensitized individuals.

Eyes: May cause pain disproportionate to the level of irritation to eye tissues. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Inhalation: May cause allergic respiratory response. Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure:

Carcinogen: This product contains no materials that are reported as known or suspect carcinogens in levels above 0.1%.

Mutagen: This product contains no materials that are reported as known or suspect mutagens in levels above 0.1%.

Reproductive Hazard: This product contains no materials that are known or suspected of causing a reproductive hazard in levels above 0.1%.

11.4 Numerical measures of toxicity: N/A

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity: No information available.

12.2 Persistence and degradability: N/A

12.3 Bioaccumulative potential: N/A

12.4 Mobility in soil: N/A

12.5 Other adverse effects: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers or watercourses.

Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material, when properly mixed and cured with its resin component at the proper mix ratio, may be safely land filled. Contaminated packaging: mpty containers can only be disposed of when the remaining product adhering to the container walls has been removed. Hazard warning labels should be removed from the container only after it has been properly emptied.



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SECTION 14: TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA
UN Number	2735	2735	2735
UN Proper Shipping Name	Amines, liquid,corrosive,n.o.s. (Ethylene Amine)	Amines, liquid,corrosive,n.o.s. (Ethylene Amine)	Amines, liquid,corrosive,n.o.s. (Ethylene Amine)
Transport Hazard Classes	8	8	8
Packing Group	III	III	III
Environmental Hazards	Yes	Yes	Yes
Additional Information	-	EMS: F-A, S-B	-

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT):

The components of this product are contained on the chemical substance inventory list.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight	RQ
NONE	N/A	N/A	N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under this statute are:

Chemical Name	CAS Number	% By Weight
NONE	N/A	N/A

311/312 HAZARD CATEGORIES:

Sections 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

EPA HAZARD CLASSIFICATIONS:

Acute Hazard YES	Chronic Hazard YES	Fire Hazard NO
Pressure Hazard NO	Reactive Hazard NO	

313 REPORTABLE INGREDIENTS:

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight
NONE	N/A	N/A

SECTION 15 NOTES: If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449. The concentrations shown in this document are maximum or ceiling levels (expressed in weight %, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".



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SECTION 16: DISCLAIMER

The information herein is given in good faith, but no warranty expressed or implied is made. Epoxy2U urges suppliers and users of this product to evaluate its suitability and compliance with local regulations as Epoxy2U cannot foresee the nature of the final application nor final location of usage

Production Declaration

This product conforms to California VOC emission regulations utilizing California Department of Health Standard Practice for the Testing of Volatile Organic Emissions from Various Sources. This product also conforms to JIS Q1000:2005 Conformity Assessment - Guidelines for suppliers' declarations of conformity with product standards and JIS Q17030:2004 Conformity assessment - General requirements for third-party marks of conformity utilizing standard test method JIS A1902-3:2006 Determination of the emission of volatile organic compounds and aldehydes for building products - Sampling, preparation of test specimens and testing condition.



SAFETY DATA SHEET

METALLIC EPOXY RESIN PART A

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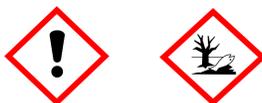
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Metallic Epoxy Resin Part A
PRODUCT CODES: 1450
MANUFACTURER: Duracorp
DIVISION: Floor Coating
ADDRESS: 2664 Vista Pacific, Oceanside CA 92056

CHEMICAL SPILL
EMERGENCY PHONE: CHEMTREC: 800-424-9300
OTHER CALLS:

PRODUCT USE: Floor Coating
PREPARED BY: Proline

SECTION 2: HAZARDS IDENTIFICATION



POTENTIAL HEALTH EFFECTS:

EYES: Minor transient irritation. No corneal injury likely.

SKIN CONTACT: May cause allergic skin reaction in susceptible individuals. Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: The LD50 for skin absorption in rabbits is 20,000 mg/kg.

INHALATION: Low acute oral toxicity; LD50 (rat) greater than 4000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.

Vapors are unlikely due to physical properties. Not a problem unless heated to a high temperature.

SYSTEMIC AND OTHER EFFECTS: Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects. A poorly characterized sample of low molecular weight epoxy resin of this type has been reported to produce skin cancer in a highly sensitive strain of mice. However, high levels of impurities compromise the validity of the findings. Epoxy resin that is representative of current manufacturing processes is not believed to be a cancer hazard to humans. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some in vitro mutagenicity tests and positive in others.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	WGT%	CAS#
Reaction products of Epichlorohydrin and Bisphenol A	Approximately 95%	25085-99-8
Benzyl Alcohol	Approximately 5%	100-51-6

SECTION 4: FIRST AID MEASURES

EYES: Irrigation of the eye immediately with water for fifteen minutes is a good safety practice.

SKIN: Contact will probably cause no more than irritation. Wash off in flowing water or shower. Wash clothing before reuse.

INGESTION: Low in toxicity. No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

INHALATION: Remove to fresh air if effect occurs. Consult medical personnel.

NOTES TO PHYSICIANS: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.



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METALLIC EPOXY RESIN PART A

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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR (% BY VOLUME): UPPER LIMITS: N/A LOWER LIMITS: N/A

FLASH POINT: 245°F (118.33°C) **METHOD USED:** PMCC

NFPA HAZARD RATING: 4 = EXTREME; 3 = HIGH; 2 = MODERATE; 1 = SLIGHT; 0 = INSIGNIFICANT

NFPA HAZARD CLASSIFICATION:

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0
OTHER: N/A

HMIS HAZARD CLASSIFICATION:

HEALTH:
FLAMMABILITY:
REACTIVITY:
OTHER:

EXTINGUISHING MEDIA: Foam, CO₂, Dry Chemical or Dry sand

FIRE FIGHTING PROCEDURES: Wear positive pressure SCBA

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

METHODS FOR CLEANING UP: Soak up in absorbent material and collect in suitable containers. Residual may be removed using steam or hot soapy water.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

Practice good caution and personnel cleanliness to avoid skin and eye contact. Avoid breathing vapors of heated material. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep in properly labeled containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Good room ventilation usually adequate for most operations

RESPIRATORY PROTECTION: None normally needed.

EYE PROTECTION: Use chemical goggles.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Straw colored liquid.

VAPOR PRESSURE (mmHg): F: NA (C: N/A)

ODOR: Faint Epoxy Odor

VAPOR DENSITY (AIR = 1): N/A

PHYSICAL STATE: Liquid

SPECIFIC GRAVITY (H₂O = 1): 1.12-1.14

BOILING POINT: F: NA (C: N/A)

SECTION 10: STABILITY AND REACTIVITY

CONDITIONS TO AVOID (STABILITY): Excess heating over long periods of time degrades the resin.

INCOMPATIBILITY (MATERIAL TO AVOID): Base.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: The by-products expected in incomplete pyrolysis or combustion of epoxy resins are mainly phenolics, carbon monoxide and water. The thermal decomposition products of epoxy resins therefore should be treated as potentially hazardous substances, and appropriate precautions should be taken.

HAZARDOUS POLYMERIZATION: Will not occur by itself but masses more than 1 pound of product plus aliphatic amine will cause irreversible polymerization with considerable heat buildup.



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SECTION 11: TOXICOLOGICAL INFORMATION

11.0 TOXICOLOGICAL INFORMATION

11.1 Likely routes of exposure: N/A

11.2 Symptoms related to the physical, chemical and toxicological characteristics:

Ingestion: Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat. Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Skin Contact: Prolonged or widespread skin contact may result in absorption of harmful amounts.

Irritation:

Skin: Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage. Skin contact has caused allergic skin reactions in certain sensitized individuals.

Eyes: May cause pain disproportionate to the level of irritation to eye tissues. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Inhalation: May cause allergic respiratory response. Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure:

Carcinogen: This product contains no materials that are reported as known or suspect carcinogens in levels above 0.1%.

Mutagen: This product contains no materials that are reported as known or suspect mutagens in levels above 0.1%.

Reproductive Hazard: This product contains no materials that are known or suspected of causing a reproductive hazard in levels above 0.1%.

11.4 Numerical measures of toxicity: N/A

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity: No information available.

12.2 Persistence and degradability: N/A

12.3 Bioaccumulative potential: N/A

12.4 Mobility in soil: N/A

12.5 Other adverse effects: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers or watercourses. Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material, when properly mixed and cured with its resin component at the proper mix ratio, may be safely land filled. Contaminated packaging: empty containers can only be disposed of when the remaining product adhering to the container walls has been removed. Hazard warning labels should be removed from the container only after it has been properly emptied.



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METALLIC EPOXY RESIN PART A

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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Burn in adequate incinerator or bury in an approved landfill; in accordance with local, state and federal regulations.

SECTION 14: TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA (Cargo)
UN Number	Non-regulated	3082	3082
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (LIQUIDEPOXY RESIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (LIQUID EPOXY RESIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (LIQUIDEPOXY RESIN)
Hazard Classes	9	9	9
Packing Group	III	III	III
Marine Pollutant	Yes	Yes	Yes

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

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Chemical Name	CAS Number	% By Weight	RQ
NONE	N/A	N/A	N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

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Chemical Name	CAS Number	% By Weight
NONE	N/A	N/A

311/312 HAZARD CATEGORIES:

Sections 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

EPA HAZARD CLASSIFICATIONS:

Acute Hazard NO	Chronic Hazard NO	Fire Hazard NO
Pressure Hazard NO	Reactive Hazard NO	

313 REPORTABLE INGREDIENTS:

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight
NONE	N/A	N/A

SECTION 15 NOTES: If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449. The concentrations shown in this document are maximum or ceiling levels (expressed in weight %, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".

SECTION 16: OTHER INFORMATION

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Production Declaration

This product conforms to California VOC emission regulations utilizing California Department of Health Standard Practice for the Testing of Volatile Organic Emissions from Various Sources. This product also conforms to JIS Q1000:2005 Conformity Assessment - Guidelines for suppliers' declarations of conformity with product standards and JIS Q17030:2004 Conformity assessment - General requirements for third-party marks of conformity utilizing standard test method JIS A1902-3:2006 Determination of the emission of volatile organic compounds and aldehydes for building products - Sampling, preparation of test specimens and testing condition.