

1. IDENTIFICATION

Product identifier

Product Name MC Epoxy Standard Cure Part B

Other means of identification

Part Number(s) 250102, 250502

Recommended use of the chemical and restrictions on use

Recommended use Epoxy resin curative; for professional use only

Uses advised against Not intended for consumer use

Details of the supplier of the safety data sheet
Manufacturer Address

Ultra Durable Technologies
 355 6th Ave. North
 Waite Park, MN 56387
 320-258-2266
 Ultradt.com

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered Hazardous by the 2024 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Flammable liquids	Category 4

GHS Label elements, including precautionary statements


Signal Word Danger

Hazard Statements

Harmful if swallowed.
 Causes severe skin burns and serious eye damage.
 May cause an allergic skin reaction.
 Suspected of causing cancer.
 Suspected of damaging fertility or the unborn child.

Combustible liquid.

Precautionary Statements - Prevention:

Obtain, read, and follow all safety instructions before use.

Wear protective gloves and clothing, eye protection and face protection.

Do not breathe dusts or mists.

Wash hands, face, and exposed skin thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Precautionary Statements – Response:

IF INGESTED: Rinse mouth. Do NOT induce vomiting. Seek medical help.

IF ON SKIN: wash with plenty of water for several minutes. Immediately take off all contaminated clothing; wash before reuse. Seek emergency medical help immediately.

IF INHALED: remove victim to fresh air and keep comfortable for breathing.

IF IN EYES: immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.

If exposed or concerned, seek medical advice.

See Section 4, First Aid Measures for specific treatment.

Precautionary Statements - Storage:

Store locked up.

Precautionary Statements - Disposal:

Dispose of contents and container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS #	Weight %
4-Nonyl-Phenol, Branched	84852-15-3	30 - 60
Polyoxypropylenediamine	9046-10-0	15 - 40
2-Methylpentamethylenediamine	15520-10-2	10 - 30
2,2' -[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	1675-54-3	7 - 13
Solvent naptha, light aromatic	64742-95-6	0.1 – 1

Trade Secret statement (OSHA 1910.1200(i)) Specific chemical identities and concentrations for one or more listed chemicals are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

4. FIRST AID MEASURES

Description of first aid measures

Eye contact

Immediately flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids as able. Remove contact lenses if present and easy to do; continue rinsing. Seek medical attention.

Skin Contact

Immediately remove contaminated clothing and flush skin with soap and water. Wash contaminated clothing before reuse or discard. Seek immediate medical attention.

Inhalation

Remove victim to fresh air and keep comfortable for breathing. If respiratory irritation is present, seek medical attention.

Ingestion

Immediately rinse mouth with water and drink plenty of water after. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical advice.

Most important symptoms and effects, both acute and delayed

Severe eye irritation.

Skin irritation, rash, redness.

Immediate medical attention and special treatment, if necessary

Immediately rinse skin and eyes if contact is made.

Special Instructions for Physicians

Treat symptomatically

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Dry powder Foam. Carbon dioxide. Class "C" extinguishers.

Unsuitable extinguishing media

Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Protective equipment and precautions for firefighters

Evacuate area. Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing media in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment, and emergency procedures**

Ensure adequate ventilation, especially in confined areas.

Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Keep people away from and upwind of spill/leak.

Remove sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges.

Environmental precautions

Avoid release to the environment. Do not allow product to enter drains, sewers, public water, surface water, or groundwater. If contact is made, notify authorities.

Methods and material for containment and cleaning up

Use personal protective equipment as required. Stop flow of material if able to do so safely. Contain discharged material. Absorb spill using absorbent, non-combustible material such as earth, sand, or vermiculite. Take up mechanically to an appropriate disposal container. Dispose of in accordance with local, state, and federal regulations. Scrub up residues with detergent-water mix and allow to air-dry. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE**Precautions for safe handling**

Wear appropriate personal protective equipment – gloves, safety glasses, appropriate clothing. Wash hands thoroughly after use. Practice good industrial hygiene when using product. Ensure good ventilation of the workstation or use local exhaust ventilation. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Avoid contact with skin and eyes. Avoid breathing fumes, mists, vapors, or spray. All equipment used when handling the product must be grounded. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Store in a cool, dry, well-ventilated place away from heat, sparks, flames, and other ignition sources. Avoid static electricity discharge.

Store away

from direct sunlight. Store locked up. Keep containers tightly closed and properly labelled.

Incompatible materials

Will react rapidly in contact with epoxies.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

The use of local exhaust ventilation is recommended. Eyewash stations, chemical showers recommended.

Exposure Guidelines

Chemical Name	STEL	ACGIH TWA	OSHA TWA
4-Nonyl-Phenol, Branched	Not established	Not established	Not established
Polyoxypropylenediamine	No Limit	No Limit	No Limit
2-Methylpentamethylenediamine	No Limit	No Limit	No Limit
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	No Limit	No Limit	No Limit
Solvent naptha, light aromatic	Not established	Not established	Not established

Individual protection measures, such as personal protective equipment

Eye/face protection Protective eyewear (chemical goggles). Face shield if splash hazard exists.

Skin and body protection Gloves. Protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Clear and colorless to slightly yellow
Odor	Moderate amine-like
Melting point	No information
Boiling point	≥ 34°C/ ≥ 93°F
Flammability	No information
Upper flammability limit	No information
Lower flammability limit	No information
Flash point	83°C/181°F
Autoignition Temperature	No information
Decomposition temperature	No information
pH	No information
Dynamic Viscosity	500 cP
Kinematic Viscosity	No information
Solubility	No information
Partition coefficient n-octanol/water (Log Pow)	No information
Vapor pressure	No information
Density	8.07 lbs/gal
Relative Density	No information
Percent solids by weight	99.5%
Percent volatile by weight	0.5%
Percent solids by volume	99.5%
Actual VOC	4.7 g/L

10. STABILITY AND REACTIVITY

Reactivity

This product is non-reactive under normal conditions of use, storage, and transport.

Chemical stability

Stable under recommended storage conditions.

Hazardous reactions

None under normal conditions of use.

Conditions to avoid

Extremes of temperature and direct sunlight.
Avoid contact with hot surfaces. Heat. No flames, no sparks.

Incompatible materials

Will react rapidly with epoxies.

Hazardous decomposition products

No information available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Inhalation of gas, mist, or vapor.

Eye contact Liquid material splash or gas, mist, or vapor.

Skin Contact Liquid material splash.

Ingestion Liquid material.

Symptoms related to physical, chemical, and toxicological characteristics

Skin irritation followed by rash development, redness, or swelling. Skin sensitization may occur.
Severe irritation to the eyes followed by damage of the cornea with prolonged/repeated exposure.

Delayed and immediate effects, including chronic effects from short- and long-term exposure

Prolonged and/or repeated skin contact exposure may lead to skin sensitization.

Numerical Values of Toxicity – Component Information

Chemical name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
4-Nonyl-Phenol, Branched	= 1,300 mg/kg (Rat)	> 2,000 mg/kg (Rabbit)	> 20 mg/L
Polyoxypropylenediamine	= 3,069 mg/kg (Rat)	= 3,170 mg/kg (Rabbit)	> 0.74 mg/L (Rat, 8h)
2-Methylpentamethylenediamine	= 1,170 mg/kg (Rat)	= 1,870 (Rabbit)	= 4.9 mg/L (Rat, 1 hr)
2,2' –[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	> 2,000 mg/kg (Rat)	> 2,000 mg/kg (Rat)	--
Solvent naptha, light aromatic	= 3,492 mg/kg	> 3,160 mg/kg	> 20 mg/L

Skin Corrosion/Irritation

May cause irritation and rash. Sensitization may occur.

Serious Eye Damage/Irritation

May cause serious eye irritation or damage to the cornea.

Respiratory or Skin Sensitization

May cause skin irritation/rash leading to allergic skin reaction.

Germ Cell Mutagenicity

Not classified

Carcinogenicity

Product contains one or more ingredients suspected of causing cancer.

Reproductive Toxicity

Product contains one or more ingredients suspected of causing harm to the

unborn child.

STOT – Single Exposure

Not classified

STOT – Repeated Exposure

Not classified

Aspiration Hazard

Not classified

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
MC Epoxy Standard Cure Part B	1,693.67 mg/kg	2,554.15 mg/kg	60.70 mg/L

Acute Toxicity (oral)

May cause distress of the digestive system if swallowed.

Acute Toxicity (dermal)

Not classified.

Acute Toxicity (inhalation)

Not classified.

Interactive Effects

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. This product contains a chemical which is listed as a marine pollutant according to DOT.

Chemical name	Algae/aquatic plants	Fish	Crustacea
4-Nonyl-Phenol, Branched	LC ₅₀ = 0.42 mg/L (Pseudokirchneriella subcapitata, 96h) EC ₅₀ = 1.3 mg/L (Desmodesmus subspicatus, 72h) EC ₅₀ = 0.44 mg/L (Pseudokirchneriella subcapitata, 72h)	LC ₅₀ = 35mg/L (Pimephales promelas, 96h) LC ₅₀ = 0.1351 mg/L (Lepomis macrochirus, 96 h)	EC ₅₀ = 0.14 mg/L (Daphnia magna, 48 hr)
Polyoxypropylenediamine	EC ₅₀ = 141.72 mg/L (Skeletonema costatum, 72h)	EC ₅₀ > 15 mg/L (Oncorhynchus mykiss, 96h) LC ₅₀ = 772.14 mg/L (96h)	EC ₅₀ = 80 mg/L (Daphnia magna, 48h) EC ₅₀ = 418.34 mg/L (Acartia tonsa, 48h)
2-Methylpentamethylenediamine	EC ₅₀ > 100 mg/L (72h)	LC ₅₀ = 1825	EC ₅₀ = 19.8 mg/L (Daphnia magna, 48h)
2,2' -[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	EC ₅₀ = 9.4 mg/L (Sellenastrum capricornutum, 72h)	LC ₅₀ = 1.5 mg/L (Oncorhynchus mykiss, 96h)	EC ₅₀ = 2.7 mg/L (Daphnia magna, 48h)
Solvent naptha, light aromatic	--	--	--

Persistence and degradability

Not readily biodegradable

Bioaccumulation

Chemical name	Partition Coefficient n-octanol/water (Log P _{ow})
4-Nonyl-Phenol, Branched	--
Polyoxypropylenediamine	1.34
2-Methylpentamethylenediamine	< 1
2,2' -[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	3.8
Solvent naptha, light aromatic	--

Assessment

No information available

Mobility in Soil

No information available

Other adverse effects

Elimination Information

No information available

Water hydrolysis

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal of wastes

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Do not discharge product into sewer system, ground water, or bodies of water.

Contaminated packaging

Do not reuse container.

US EPA Waste Number

U055 U239

14. TRANSPORT INFORMATION

UN Number	UN1719
UN Proper Shipping Name	Caustic alkali liquid, n.o.s. (Polyoxypropylenediamine)
Transport Hazard Class(es)	
DOT	8
TDG	8
MEX	8
ICAO (air)	8
IMDG	8
IATA	8
RID	8
ADR	8
ADN	8
Packing Group	
DOT	III
TDG	III
MEX	III
ICAO (air)	III
IMDG	III
IATA	III
RID	III
ADR	III
ADN	III
Environmental Hazards	Marine pollutant
Special Precautions for User	
DOT	IB3, T7, TP1, TP28
TDG	16
MEX	223, 274
ICAO	A3
IATA	A3, A803
IMDG	223, 274
RID	274
ADR	274
ADN	274
Emergency Response Guide Number	154
IATA ERG Code	8L
IMDG EmS-No	F-A, S-B
RID/ADR/ADN Classification code	C5
ADR Tunnel restriction code	(E)

NOTE Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100-177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

15. REGULATORY INFORMATION

Chemical Inventories

TSCA All components of this product are listed on the TSCA Inventory or are exempted from listing

DSL/NDSL All components of this product are listed on the TSCA Inventory or are exempted from listing

US Federal Regulations

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

SARA 313

Section 313 of the Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical that is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations. Part 372.

Chemical name	SARA 313 - Threshold Values %
4-Nonyl-Phenol, Branched	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes - Oral
Chronic Health Hazard	No
Fire Hazard	Yes – Category 4 Combustible Liquid
Sudden Release of Pressure Hazard	No
Reactive Hazard	No
Carcinogenicity	Yes
Reproductive Toxicity	Yes
Respiratory or Skin Sensitization	Yes - Skin
Germ Cell Mutagenicity	No
Serious Eye Damage/Irritation	Yes

US State Regulations

California Proposition 65 – This product may expose users to chemicals which are known to the State of California to cause cancer and/or genetic defects.

Chemical name	California Proposition 65
Ethyl Benzene - 100-41-4	Carcinogen
Cumene - 98-82-8	Carcinogen

HMIS Hazard codes

Health	3
Fire	2
Reactivity	0

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Preparation Date	24-Feb-2023
Revision Date	14-July-2025
Revision Note	General formatting updates; Updated sections 1, 2 (Acute Toxicity – Oral, Category 4), 3 (Composition change), 8, 11 (acute toxicity calculated), 12 (aquatic toxicity added), 14, and 15.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Shipping information may vary based upon container size and shipping destination. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. The manufacturer assumes no responsibility for injury to the recipient or third persons, or for any damages to any property resulting from misuse of the product.

End of Safety Data Sheet