

1. IDENTIFICATION

Product identifier

Product Name MC Epoxy Standard Cure Part B

Other means of identification

Part Number(s) 250502, 250102

Recommended use of the chemical and restrictions on use

Recommended use No information available.

Uses advised against No information available.

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

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Flammable liquids	Category 4

Danger



Hazard statements

Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Combustible liquid.

Precautionary Statements**Prevention:**

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Use personal protective equipment as required.
 Wash face, hands, and any exposed skin thoroughly after handling.
 Do not eat, drink, or smoke when using this product.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves.
 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Response:

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician

Call a POISON CENTER or doctor/physician if you feel unwell.

Wash contaminated clothing before reuse.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

Do NOT induce vomiting .

In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage:

Store locked up.

Store in a well-ventilated place. Keep cool.

Disposal:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	Trade Secret
4-Nonyl-Phenol, Branched	84852-15-3	15 - 40	*
Polyoxypropylenediamine	9046-10-0	15 - 40	*
2-Methylpentamethylenediamine	15520-10-2	10 - 30	*
Bis A,Epichlorohydrin Epoxy	25068-38-6	5 - 10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures****General advice**

If symptoms persist, call a physician.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eyes wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation	Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.
Ingestion	Clean mouth with water and drink plenty of water after. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.
Self-protection of the first aider	Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed:

Symptoms	No information available.
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Indication of any immediate medical attention and special treatment needed:

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use: Dry chemical. Carbon dioxide (CO₂). Alcohol resistant foam.

Unsuitable extinguishing media: **CAUTION:** Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical:

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions	Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from, and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.
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Environmental precautions

Environmental precautions	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.
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Methods and material for containment and cleaning up:

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	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**Advice on safe handling**

Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

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

Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

Incompatible materials

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters:****Exposure Guidelines**

NIOSH IDLH (Immediately Dangerous to Life or Health)

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls**Engineering Controls**

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tight sealing safety goggles.

Skin and body protection

No special technical protective measures are necessary.

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

When using do not eat, drink, or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	Liquid
Appearance	Clear, slightly yellow liquid
Odor	Moderate
Color	Colorless to slightly yellow
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	>= 34 °C / 93 °F	
Flash point	83 °C / 181 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	0.95	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
Liquid Density	8.05 lbs/gal
Bulk density	No information available
Percent solids by weight	99.5%
Percent volatile by weight	0.5%
Percent solids by volume	99.5%
Actual VOC (lbs/gal)	0
Actual VOC (grams/liter)	4.7
EPA VOC (lbs/gal)	0
EPA VOC (grams/liter)	4.7
EPA VOC (lb/gal solids)	0

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
4-Nonyl-Phenol, Branched 84852-15-3	= 1300 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	-
Polyoxypropylenediamine 9046-10-0	= 242 mg/kg (Rat)	= 360 mg/kg (Rabbit)	-
2-Methylpentamethylenediamine 15520-10-2	= 1170 mg/kg (Rat)	-	= 4.1 mg/L (Rat) 1 h = 2.9 mg/L (Rat) 1 h
Bis A,Epichlorohydrin Epoxy 25068-38-6	= 11400 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.
IARC (International Agency for Research on Cancer)
 Group 3 - Not classifiable as a human carcinogen
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

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

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Very toxic to aquatic life with long lasting effects
 15.37% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
4-Nonyl-Phenol, Branched 84852-15-3	0.36 - 0.48: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 1.3: 72 h Desmodesmus subspicatus mg/L EC50 0.16 - 0.72: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	0.135: 96 h Pimephales promelas mg/L LC50 flow- through 0.1351: 96 h Lepomis macrochirus mg/L LC50 flow- through	0.14: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

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.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	U055 U239

This product contains one or more substances that are listed with the State of California as hazardous waste.

14. TRANSPORT INFORMATION

<u>DOT</u>	
UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard class	8
Packing Group	III
Reportable Quantity (RQ)	(Xylene: RQ (kg)= 45.40)
Special Provisions	IB3, T7, TP1, TP28
Marine pollutant	This product contains a chemical which is listed as a marine pollutant according to DOT.
Description	UN1719, Caustic alkali liquids, n.o.s. (Polyoxypropylenediamine), 8, III, Marine pollutant
Emergency Response Guide Number	154
<u>TDG</u>	
UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard class	8
Packing Group	III
Special Provisions	16
Description	UN1719, Caustic alkali liquid, n.o.s. (Polyoxypropylenediamine), 8, III
<u>MEX</u>	
UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard class	8
Special Provisions	223, 274
Packing Group	III
Description	UN1719, Caustic alkali liquid, n.o.s. (Polyoxypropylenediamine), 8, III
<u>ICAO (air)</u>	
UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard class	8
Packing Group	III
Special Provisions	A3
Description	UN1719, Caustic alkali liquid, n.o.s. (Polyoxypropylenediamine), 8, III
<u>IATA</u>	
UN Number	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Transport hazard class(es)	8
Packing Group	III

ERG Code	8L
Special Provisions	A3, A803
Description	UN1719, Caustic alkali liquid, n.o.s. (Polyoxypropylenediamine), 8, III

IMDG

UN Number	UN1719
Transport hazard class(es)	8
Packing Group	III
EmS-No	F-A, S-B
Special Provisions	223, 274
Description	UN1719, Caustic alkali liquid, n.o.s. (Polyoxypropylenediamine), 8, III

RID

UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Transport hazard class(es)	8
Packing Group	III
Classification code	C5
Special Provisions	274
Description	UN1719, Caustic alkali liquid, n.o.s. (Polyoxypropylenediamine), 8, III
Labels	8

ADR

UN Number	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Transport hazard class(es)	8
Packing Group	III
Classification code	C5
Tunnel restriction code	(E)
Special Provisions	274
Description	UN1719, Caustic alkali liquid, n.o.s. (Polyoxypropylenediamine), 8, III, (E)
Labels	8

ADN

Proper shipping name	Caustic alkali liquid, n.o.s.
Transport hazard class(es)	8
Packing Group	III
Classification code	C5
Special Provisions	274
Description	UN1719, Caustic alkali liquid, n.o.s. (Polyoxypropylenediamine), 8, III
Hazard label(s)	8
Limited quantity (LQ)	5 L
Equipment Requirements	PP, EP

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are 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
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Ethyl Benzene - 100-41-4	Carcinogen
Cumene - 98-82-8	Carcinogen
Propylene oxide - 75-56-9	Carcinogen

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Hazardous air pollutants (HAPS) content

This product contains no Hazardous Air Pollutants individually at 1% by weight, or greater.

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

NFPA	Health hazards 3	Flammability 2	Instability 0	Physical and chemical properties -
HMIS	Health hazards 3 *	Flammability 2	Physical hazards 0	Personal protection X
Chronic Hazard Star Legend	* = Chronic Health Hazard			

Preparation Date 24-Feb-2023
Revision Date 19-Mar-2024
Revision Note General formatting updates; updated physical and chemical properties.

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