

## MATERIAL SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name. Clear epoxy UCE-012 B

#### 1.2 Recommended use and restriction on use Epoxy Resin

General use Do not use except to purpose  
Restriction on Use

#### 1.3 Details of the supplier of the safety data sheet

Ultra epoxy, Corp  
1201 Ave H, Grand Prairie, TX 75050  
214-753-4423

#### 1.4 Emergency telephone number

214-753-4423

### SECTION 2: Hazards identification

#### 2.1 GHS classification

Skin corrosion / skin irritant : 2  
Serious eye damage / eye irritation : 2  
Skin sensitization : 1  
Specific target organ toxicity (repeated exposure) : 2  
Acute aquatic environmental hazards : 2  
Chronic aquatic environmental hazards : 2

#### 2.2 Label elements

GHS label elements, including  
precautionary statements  
Hazard symbols

:



Signal words

Danger

Hazard statements

H302 Harmful if swallowed  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H373 May cause damage to organs through prolonged  
or repeated exposure  
H411 Toxic to aquatic life with long lasting effects

Precautionary statements	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
Prevent	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 IF ON SKIN: Gently wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/attention if you feel unwell. P321 Specific treatment (see ... on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
Storage	Not applicable
Disposal	P501 Disposed of contents/container in accordance with local/regional/national regulation.

**SECTION 3: Composition/information on ingredients**

Chemical name	Trade name and Synonyms	CAS No	Content (%)
2,2-Bis(4'-glycidioxyphenyl) Propane	DIGLYCIDYL ETHER OF BISPHENOL A	(CAS No) Trade Secret	Trade Secret
Polyoxypropylenediamine	Polyoxypropylenediamine	(CAS No) Trade Secret	Trade Secret
SI(Secret)	***	(CAS No) Trade Secret	Trade Secret

**SECTION 4: First aid measures**

General advice	Seek medical advice or medical attention if condition persists.
A. Eye contact	If required, provide artificial respiration. Please remove contact lenses, if present. continue rinsing.  Get emergency medical attention

B. Skin contact	Skin (or hair) If you get beotgeona Please remove all contaminated clothing. Rinse skin with water / shower. If skin irritation or rash Seek medical advice. Keep the wash contaminated clothing before use again. If the hot material, heat affected area to eliminate a large amount of press wash, immerse in cold water
C. Inhalation	Remove contaminated clothing and shoes, and isolate the contaminated area please Minor skin contact to prevent the spread of contaminated surfaces please Excess dust or fumes when exposed to clean air to remove if you cough or other symptoms please seek medical attention. Immediate medical advice Seek. Excess dust or fumes when exposed to clean air to remove if you cough or other symptoms please seek medical attention.
D. Most important symptoms/effects, acute and delayed	Not available
E. Note to physician	Medical follow-up survey when exposed to contact and keep special first aid measures, such as. Medical personnel are aware of the substance to take protective measures please

**SECTION 5: Firefighting measures**

A. Suitable(and unsuitable) extinguish media	Digestion of the material associated with alcohol-resistant foam, carbon dioxide or water spray should be used Choking, dry sand or soil during digestion should be used
B. Specific hazards arising from the chemical	Unstable at room temperature. By thermal decomposition or combustion while riding a provocative and highly toxic gases may be generated Containers may explode when heated Water leakage fire / explosion hazard. After digestion can be carry out periodic May ignite on contact with moisture Flammable / combustible materials Some materials that can burn quickly flashes naemyeo Some can ride, but not easily ignited Some may decompose explosively when heated or fire Non-flammable, material decomposes when heated, but the ride corrosive / toxic fumes may cause
C. Special protective actions for fire-fighters	Wear suitable protective rescuer. Area by maintaining a safe distance away please digestion Melting may be transported, so beware Number of fire by digging ditches for disposal Please avoid trapping material scattered If you do not risk moving containers from fire area please The maximum distance from the tank in case of fire or fire extinguishing equipment, please use the unattended Evolved after digestion tank fires with plenty of water containers sikhisioh Highs in the tank pressure relief device in case of fire or discolor immediately if the tank out of the way. Tank in flames of fire from the tank out of the way. Large tank fire fighting equipment in case of fire use unmanned and, if possible please let withdrew ride

**SECTION 6: Accidental release measures**

- A. Personal precautions, protective equipment and emergency procedures**
- Dust, fumes, gas, mist or vapor. Avoid inhalation of spray.  
Wipe spills immediately that, protection protest Follow precautions.  
Please remove all sources of ignition  
If you do not risk a leak, stop it  
Without appropriate protective clothing Do not touch damaged containers or spills  
There is no leak at the front of the fire protection of beams arc vapor Wear  
Please stop the spread by covering it with plastic sheets  
Prevent formation of dust
- B. Environmental precautions**
- Please note that to avoid substances and conditions  
Avoid release to the environment.  
Waterways, sewers, basements, please avoid entering into a confined space
- C. Methods and materials for containment and cleaning up**
- Embankments built for the digestion of water collection please.  
Inert material (eg dry sand or earth), and to absorb spill, chemical waste, put it in a container.  
Moisten with water to remove dust and prevent scattering follow.  
To absorb the liquid detergent and wash contaminated area in the press.  
When large amounts of liquid spills and leaks by far Make a ditch  
Clean spillage collected using explosion-proof tools and follow a loosely covered plastic container and add  
A shovel to clean spillage clean, dry container containing a loosely closed containers from spill area after the turn to move  
Leak powder to prevent the spread by covering it with plastic sheeting to keep dry, please  
Small spills on sand, non-combustible material to absorb and container fence to follow  
Handling / storage please use caution.  
Open your carefully before opening the cap.  
Long-term or continuous skin contact barricade.  
Please note that to avoid substances and conditions  
Please pay attention to high-temperature

**SECTION 7: Handling and storage**

- A. Precautions for safe handling**
- Read and understand all safety precautions before you Do not handle.  
Dust, fumes, gas, mist or vapor Avoid inhalation of spray.  
Wash hands thoroughly after handling.  
When using this product, eat, drink or Do not breathe.  
A well-ventilated area or outdoors Please treat.  
Workplace Do not export out of the contaminated clothing.  
Pressure or, cut, or welding, soldering, bonding, drilling, grinding or heat, uncovered, flames, sparks, static electricity or other sources of ignition Do not expose to.  
Product containers have been emptied of debris may remain after all MSDS / label precautions Follow.  
Handling / storage please use caution.  
Open your carefully before opening the cap.  
Long-term or continuous skin contact barricade.  
Please note that to avoid substances and conditions  
Please pay attention to high-temperature

B. Conditions for safe storage	By maintaining the temperature Avoid direct sunlight. Please save the seals. Please keep the interval between instillation. Because reactive substances (...lb) than from excessive Please note that when you do not exceed ~°F . Keep away from food and drink.
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## SECTION 8: Exposure controls/personal protection

A.Special Note for Exposure Control: Consult local authorities for acceptable exposure limits

ACGIH TLV(TWA) Not Determined

OSHA PEL (TWA) Not Determined

B. Appropriate engineering controls Process isolation, local exhaust, or air to adjust to levels below the exposure guidelines go for the other engineering controls.  
During operation of dust, fume or mist occurs, the air pollution please ventilation to maintain exposures below occupational limits  
Store or use this material, washing facilities and safety shower facility below to install.

C. Individual protection measures  
Respiratory protection Under conditions of frequent use or heavy exposure, respiratory protection may be needed  
Respiratory protection is ranked in order from minimum to maximum.  
Keep Consider warning properties before use.  
Respirator (direct type small, organic gas)  
Any chemical cartridge respirator (full facepiece and an organic vapor canister)  
Any air-purifying respirator (full facepiece and an organic vapor canister)  
For Unknown Concentrations or Immediately Dangerous to Life or Health if:  
Any supplied-air respirator (compound airline mask), air respirator with a full facepiece

Eye/face protection Protection from non-hazardous liquid products or Wear safety glasses.  
Wash facilities and emergency workshop near three facilities (shower type) Keep installed.

Hand protection Wear appropriate chemical resistant gloves.

Skin protection Wear appropriate chemical resistant clothing.

## SECTION 9: Physical and chemical properties

A. Appearance	
Physical state	Liquid
color	Clear
B. Odour	Pungent odor
C. Odour threshold	Not available
D. pH	1.25~1.58(water=1)
E. Melting point/ freezing point	Not available
F. Initial b.p and b.p range	Not available
G. Flash point	Not available
H. Evaporation rate	Not available
I. Flammability(solid,gas)	Not available

J. Upper/lower flammability or explosive limits	Not available
K. Vapor pressure	
L. Solubility	Not available
M. Vapor density	Not available
N. Specific gravity	Not available
O. Partition coefficient of n-octanol/water	Not available
P. Auto-ignition temperature	Not available
Q. Decomposition temperature	Not available
R. Viscosity	Not available
S. Molecular weight	900~2800 centipoise (at 77°F )
T. autoignition temperature	Not available
	Not available

### SECTION 10: Stability and reactivity

A. Chemical stability	Stable under normal temperature and pressure Containers may explode when heated
B. Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions
C. Condition to avoid	Avoid incompatible materials and conditions. Failure to heat the container for a long time
D. Materials to avoid	Strong acids, strong bases, strong oxidizing agents.
E. Hazardous decomposition products	Under normal conditions hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 1) 2,2-Bis(4'-glycidioxyphenyl) Propane

##### A. Information on the likely routes of exposure

###### Acute toxicity

Inhalation	Not available
Oral	Not available
Dermal	Not available
Serious eye damage/irritation	Causes severe eye irritation

##### B. Delayed, acute and chronic effects from short- and long-term exposure

###### Acute toxicity

Oral	LD50 > 1,000mg/kg Rat (NLM)
Dermal	50 > 2,000mg/kg Rabbit
Inhalation	Not available
Skin corrosion and irritation	Rabbit skin irritation (CERI Hazard data 2002).
Carcinogenicity	European Union Directive is R38
IARC	Not available
NTP	Not available
OSHA	Not available
WISHA	Not available
ACGIH	Not available
EU CLP	Not available

## 2) Polyoxypropylenediamine

Oral	LD50 2,885.3mg/kg , Rat
Dermal	LD50 2,979.7mg/kg , Rabbit
Inhalation	LC50 >0.74mg/l 8hr , Rat
Skin corrosion and irritation	Corrosive
Severe eye damage and irritation	Corrosive
Carcinogenicity	
IARC	Not available
NTP	Not available
OSHA	Not available
WISHA	Not available
ACGIH	Not available
EU CLP	Not available

## SECTION 12: Ecological information

### A. Toxicity

#### Fish

[Polyoxypropylenediamine] : LC50 = 772.14mg/l 96h static

#### Crustaceans

[Polyoxypropylenediamine] : Not available

#### Algae

[Polyoxypropylenediamine] : EbC50(biomass) = 141.72 mg/l sea water 72h Static

[Polyoxypropylenediamine] : ErC50(Growth rate) = 15 mg/l pure water 72h Static

### B. Persistence and degradability

#### Persistence

[4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane]

: log Kow = 2.821 (Estimates)

Degradability Not available

### C. Bioaccumulative potential Accumulative potential

[Polyoxypropylenediamine]

D. Mobility in soil Not available

E. Other adverse effects Not available

## SECTION 13: Disposal considerations

### A. Disposal methods

Waste is a mixture of two or more is specified, the process is difficult to separate

In case of incineration or similar may be stabilized reduction

Detachable water separation leading the way will be pre-treated

Will be incinerated

Keep high-temperature incineration.

Substances such as organic solvents, recycling and recovery of the high-temperature incineration residues Keep

B. Disposal Considerations

Operators to discharge industrial waste (industrial waste emitters) in the workplace themselves or waste treatment, waste disposal contractor, and others who regeneration of waste, waste treatment facilities, person who establish and operate should be handled.

**SECTION 14: Transport information**

A. UN number	2735
B. UN Proper shipping name	[Polyoxypropylenediamine]
C. Transport hazard class	Class 8~9
D. Packing group	3
E. Environmental hazards	P
In case of fire emergency	F - A
Emergency spill	S - F

**SECTION 15: Regulatory information**

A. National and/or international regulatory information

POPs Management Law	Not applicable
U.S. Federal regulations	
OSHA PROCESS SAFETY	Not applicable
CERCLA Section 103	Not applicable
EPCRA Section 302	Not applicable
EPCRA Section 304	Not applicable
EPCRA Section 313	Not applicable
Rotterdam Convention listed ingredients	Not applicable
Stockholm Convention listed ingredients	Not applicable
Montreal Protocol listed ingredients	Not applicable
Information of EU Classification(Classification)	
[Polyoxypropylenediamine]	Xi; R36/38R43N; R51-53

Information of EU Classification(Risk Phrases)

R36/38 Irritating to eyes and skin.  
R43 May cause sensitization by skin contact.  
R51/53 Toxic to aquatic life, long lasting in the aquatic environment  
May cause adverse effects.

Information of EU Classification(Safety Phrase)

S2 Keep out of reach of children.  
S24/25 Avoid contact with skin and eyes.  
S37/39 Wear suitable protective gloves and eye/face protection  
S61 Avoid release to the environment.  
Refer to environment-related laws and health data



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**SECTION 16: Other information**

**A. The source of data**

-The information contained herein is believed to be accurate.  
It is provided independently of any sale of the product for  
purpose of hazardcommunication.

It is not intended to constitute performance information  
concerning the product.

No express warranty, or implied warranty ofmerchantability or  
fitness for a particular purpose is made with respect to the  
product or the information contained herein.

- This Safety Data Sheet was compiled with data and information  
from the following sources: OSHA, NITE, ESIS, NLM, SIDS, IPCS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*