

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 A

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

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
Hazard statements

Danger
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 (%)
4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane	DIGLYCIDYL ETHER OF BISPHENOL A	(CAS No) Trade Secret	Trade Secret
2,2-Dimethyl-1,3-dioxolan-4-ylmethanol	-	(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 to 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

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
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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.

SECTION 8: Exposure controls/personal protection

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

CLEAR EPOXY UCE-012 PART A

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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	6~8
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	Not available
L. Solubility	Not available
M. Vapor density	Not available
N. Specific gravity	1.069~1.17 (water=1)
O. Partition coefficient of n-octanol/water	Not available
P. Auto-ignition temperature	Not available
Q. Decomposition temperature	Not available
R. Viscosity	11,500~13,500 centipoise (at 77°F)
S. Molecular weight	Not available
T.autoignition temperature	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) 4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane

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 LD
Dermal	50 > 2,000mg/kg Rabbit
Inhalation	Not available
Skin corrosion and irritation	Rabbit skin irritation (CERI Hazard data 2002). European Union Directive is R38
Severe eye damage and irritation	Irritating to rabbit eyes (CERI Hazard data 2002)
Respiratory hypersensitivity	Not available

Carcinogenicity

IARC	Not available
NTP	Not available
OSHA	Not available
WISHA	Not available
ACGIH	Not available
EU CLP	Not available

2) 2,2-Dimethyl-1,3-dioxolan-4-ylmethanol

Oral	LD50 > 7,000mg/kg Rat
Dermal	Not available
Inhalation	Not available
Skin corrosion and irritation	No irritation
Severe eye damage and irritation	Irritating to rabbit eyes (CERI Hazard data 2002).

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

[4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane]
: LC50 = 1.41mg/l 96hr Oryzias latipes
[2,2-Dimethyl-1,3-dioxolan-4-ylmethanol] : LC50 = 16,700mg/l 96h

Crustaceans

[4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane]
: EC50 = 1.7mg/l 48hr
[2,2-Dimethyl-1,3-dioxolan-4-ylmethanol] : Not available

Algae

[4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane] :Not available
[2,2-Dimethyl-1,3-dioxolan-4-ylmethanol] : Not available

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

[4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane]
: BCF = 0.56~0.67(Exposure concentrations:10ug/l,5.6<=BCF<6.8(Exposure concentrations:1ug/l)
[2,2-Dimethyl-1,3-dioxolan-4-ylmethanol] : BCF = 1.3

Biodegradability

[4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane]
: Biodegradability = 0 0(%) 28 day
[2,2-Dimethyl-1,3-dioxolan-4-ylmethanol] : Zahn-Wellens tested - biodegradable

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	3082
B. UN Proper shipping name	[4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane] : Environmentally hazardous substance, liquid, N.O.S
C. Transport hazard class	Class 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)	
[4,4'-(1-methylethylidene)bisphenol polymer eith(chloromethyl)oxirane	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

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.