

MATERIAL SAFETY DATA SHEET

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

1.1 Product identifier

Product name. Epoxy coat UEG-4251A / 2251A (Part 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

*Physical hazards	Flammable liquids : 3
Health hazards	Acute toxicity(dermal) : 3 Skin corrosion/irritation : 2 Serious eye damage/eye irritation : 2 Skin sensitization : 1
Environmental hazards	Hazardous to the aquatic environment : 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
H332 Harmful if irritation.
H335 May cause respiratory irritation.

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Precautionary statements

Prevent

P201 Obtain special instruction before use.
P210 Keep away from heat/spark/hot surface No smoking
P273 Avoid release to the environment.
P280 Wear protective gloves,clothings,eye/face protection.
P264 Wash thoroughly after handling.
P270 Do not eat ,drink,or smoke when using this products.

Response

P332+P313 If skin irritation occurs:Get medical advice
P305+P351+P338 Ifineyes,Rinse cautiously with water for several minutes. Remove contact lense,if present and easy to do. Continue rinsing.
P333+P313 If skin irritation occurs.: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuses.
P331 Do not induce vomiting.

Storage

P403+P233 Keep container tightly closed.Avoid direct sunlight,open flame,ignition sources

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

Chemical name	Trade name and Synonyms	CAS No	Content (%)
2,2-Bis(4'-glycidyoxyphenyl)propane	***	1675-54-3	65-75
BUTHYL GLYCIDIL ETHER	***	2426-08-05	5-10
Xylene	***	108-38-3	25-30
SI (SECRET)	***	***	1-5

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. conntinue 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. Extinguish media Suitable Unsuitable	Water spray,Dry powder,Carbon-dioxide,Foam. Do not use water jet as an extinguisher,as this will spread the fire.
B. Specific hazards arising from the chemical	In case of fire toxic rumes might be formed. Heat,spark,fire can explosive
C. Fire-fighting equipment/ instruction	Fire-fighter must standard protective equip,ent including flame retardant coat, helmet, with face shield,g;oves, rubber boots,& in enclosed spaces,SCBA. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from dire area if you can do so without risk. For massive fire in cargo area,use unmanned hose holder or monitor nozzle,if possible. If not,withdraw and let fire burn out. Some of these materials, if spilled,may evapor-late leaving a flammableresidue. Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	Do not handle,store or opennear an openflame, sources of heat or ignition. Protect materials from direct sunlight. Take precautionary measures against static discharges. Wear appropriate personal protective equipment. Avoid breathing mist or vapor.avoid contact with eye,skin, and clothing. Do not taste,or swallow. Use only with adequate ventilations. Wash thoroughly after handling. See section.8 of the MSDS for personal protective equipment
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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	Keep away from food, drink, & animal feeding stuffs. Keep out of the reach of children. Keep container tightly closed in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, & disposal of flammable liquids.

SECTION 8: Exposure controls/personal protection

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

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	2,2-Bis(4'-glycidylloxyphenyl)propane	BUTHYL GLYCIDIL ETHER	Xylene
ACGIH(TLV)	No data	3ppm	0.7000 g/g
OSHA(PEL)	No data	No data	125ppm
NIOSH(REL)	No data	No data	100ppm
NIOSH(IDLH)	No data	No data	No data
ACGIH(BET)	No data	No data	No data

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.

Respiratory protection : Never exceed the national Occupational Exposure Limit.
Use local exhaust ventilation or handle in a ventilated enclosure.
For greater protection a face piece chemical cartridge respirator is recommend.

SECTION 9: Physical and chemical properties

A. Appearance

Physical state	Liquid
Color	Gray
Odor	Not available
PH	Not available
Boiling point	139°C(282°F)
Melting point	42°C(107°F)
Freezing point	42°C(107°F)
Flash point	Not available
SP.Gr	1.20~1.40
Viscosity	250~350 cps
Vapor density	> 1.0(Air=1.0)
Vapor pressure	>1.0
Solubility	Insoluble
Explosion limits in air	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

2,2-Bis(4'-glycidyoxyphenyl)propane

A. Information on the likely routes of exposure

Mouth : Maybe fatal if swallowed and enter air ways.

Eyes : Cause serious eye irritation.

Skin : Cause skin irritayion. Frequent or prolonged contact may defat and dry the skin,leading to discomfort and dermatitis.

Information on healthy hazards

Acute toxicity

Oral	LD50 > 2,000mg/kg bw (female rat) LD50 1,000~5,000mg/kg rat
Dermal	LD50 > 2,000mg/kg bw (female rat) LD50 > 1,200~20,000mg/kg Rat LD50 > 20,000mg/kg Rabbit LD50 1,270mg/kg Mouse
Inhalation	4h-LCO=approx. 0.89×10^{-5} ppm
Skin irritation & stimulant	Slightly skin stimulant appear
Eye damage & stimulant	Slightly skin stimulant appear
Respiratory organs nervosity	No data
Carcinogenicity	Acute/toxic/calcinogenic(,Rat,2years) NOAEL : 15mg/kg/day(male) NOAEL : 100mg/kg/day(female) Acute/toxic/calcinogenic(Transcutaneous) NOEL : 1mg/kg/day(female) NOEL : 100mg/kg/day(male,mice) NOEL : 100mg/kg/day(male,mice)

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IARC	No data
NTP	No data
OSHA	No data
WISHA	No data
ACGIH	No data
EU CLP	No data

BUTHYL GLYCIDIL ETHER

A. Information on the likely routes of exposure

Mouth : Maybe fatal if swallowed and enter air ways.

Eyes : Cause serious eye irritation.

Skin : Cause skin irritayion. Frequent or prolonged contact may defat and dry the skin,leading to discomfort and dermatitis.

Information on healthy hazards

Acute toxicity

Oral	LD50 > 1,660mg/kg bw (female rat)
Dermal	LD50 > 788mg/kg bw (female rat)
Inhalation	LC50 2,590 ppm

Xylene

A. Information on the likely routes of exposure

Mouth : Maybe fatal if swallowed and enter air ways.

Eyes : Cause serious eye irritation.

Skin : Cause skin irritayion. Frequent or prolonged contact may defat and dry the skin,leading to discomfort and dermatitis.

Information on healthy hazards

Acute toxicity

Oral	LD50 > 3,500mg/kg bw
Dermal	LD50 > 2,000mg/kg bw (female rat)
Inhalation	LC50 > 6,350mg/kg bw

SECTION 12: Ecological information

A. Toxicity

Fishes	96hr-Lc50=3.6mg/L test mat. LC50 1.41mg/L 96hr Oryzias latipes
Crustacea	48hr-Ec50=2.8mg/L test mat. EC50 1.7mg/L 48hr
Birds	72hr-Ec50 > 11mg/L Scenedesmus capricomutum

B. Persistence / degradability

Persistence	No data
Degradability	No data

C. Bioaccumulative potential

Condensibility	Kow=3.24 log Kow 2,281 BCF 31L/kg ww BCF 0.56~0.67
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Biodegradability	0(%) 28days --- difficult degradable
D. Mobility in soil	log Koc = 2,65 ± 0.7
E. Other adverse effects	Crustacea : 21d-NOEC= 0.3mg/L test mat. Birds : 72hr-NOEC=4.2mg/L Scenedesmus capricornutum.

SECTION 13: Disposal considerations

: Dispose in accordance with federal, state and local regulations.

The generation of waste should be avoided or minimized wherever possible. Empty containers should be taken to an approved waste-handling site for recycling or disposal. Incineration or landfill should only be considered when recycling is not feasible. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

SECTION 14: Transport information

A. UN number	3082
B. UN Proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Diglycidyl ether of bisphenol A)
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

Industrial safety and healthy law : Controlled hazardous substance

2) OSHA : No data

3) CRECLA : No data

4) EPCRA 302 : No data

5) EPCRA304 : No data

6) EPCRA 313 : No data

7) EU : Xi : Stimulant materials

: N : Environment harmful material

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 of merchantability 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

Hazardous Material Information System (HMIS):

Scale 0-4 NFPA HMIS

4=Severe Hazard

3=Serious Hazard

2=Moderate Hazard

1=Slight Hazard

0=Minimal Hazard

Health : 3

Flammability : 2

Reactivity : 1

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.