

MATERIAL SAFETY DATA SHEET

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

1.1 Product identifier

Product name. T bond Vertical

1.2 Recommended use and restriction on use Epoxy arylate(Adhesive)

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

flammable liquids Category : 3
Acute toxic(Inhalation-vapour) Category : 5
Skin corrosive/irritant Category : 2
serious eye damage/eye irritation Category : 2
Germ cell mutagenicity Category : 2
Carcinogenicity Category : 2
Reproductive toxicity Category : 2
Specific Target Organ Toxicity-Single Exposure Category : 3(Respiratory tract irritation)
Specific Target Organ Toxicity-Repeated Exposure Category : 1
Aspiration hazard Category : 1

2.2 Label elements

GHS label elements, including
precautionary statements
Hazard symbols



Signal words
Hazard statements

Danger

H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H319 Causes serious eye irritation
H333 May be harmful if inhaled
H335 May cause respiratory irritation

	<p>H341 Suspected of causing genetic defects H351 Suspected of causing cancer H361 Suspected of damaging fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure</p>
Precautionary statements	<p>P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash ... thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</p>
Prevent	
Corresponding	<p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or if you feel unwell: Get medical advice/attention. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P314 Get medical advice/attention if you feel unwell. P321 Specific treatment (see ... on this label). P331 Do NOT induce vomiting. P332+P313 If skin irritation occurs: Get medical advice/attention P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use ... for extinction.</p>
Storage	<p>P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up</p>
Disposal	<p>P501 Dispose of contents/container in accordance with local/regional/national/international regulation. Other Hazard Risk which are not included in the classification criteria</p>
NFPA	<p>Styrene : Health=1, Fire=2, Reactivity=2 Silicon dioxide : Health=0, Fire=1, Reactivity=0</p>

SECTION 3: Composition/information on ingredients

Chemical name	Trade name and Synonyms	CAS No	Content (%)
Silicon dioxide	-	112945-52-5	1~10
Styrene	-	100-42-5	30~40

Ester Resin	-	-	50~60
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SECTION 4: First aid measures

General advice	Move out of dangerous area. Show this safety data sheet to ther doctor in attendance. Do not leave the victim unattended
A. Eye contact	Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room or physician as further treatment may be necessary
B. Skin contact	Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room or physician as further treatment may be necessary.
C. Inhalation	Remove patient to fresh air and seek medical assistance Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position.
D. Ingestion	Do NOT induce vomiting. Keep patient warm and at rest and call a doctor immediately
E. Indication of immediate medical attention and notes for physician	Move out of dangerous area. Show this safety data sheet to ther doctor in attendance. Do not leave the victim unattended.

SECTION 5: Firefighting measures

A. Extinguish media Suitable	Foam (alcohol resistant), carbon dioxide, powders, sand Do NOT allow run-off from fire fighting to enter drains or water course.
Unsuitable	Water jet
B. Specific hazards arising from the chemical	Special HAZARDS DUE to the substance, its decomposition products or gases produced by fire: Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.
C. Fire-fighting equipment/ instruction	Store in a dry area. When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Product surface alterations caused by calcining or mixing with additives may alter toxicological properties

SECTION 6: Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	Use personal protective clothing, Handle in accordance with good building materials hygiene and safety practice
B. Environmental precautions	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

C. Methods and materials for containment and cleaning up

For small amounts: Sweep/shovel up. Dispose of absorbed materials in accordance with regulations

For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

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.
Keep away from oxidizing agents, from strongly alkaline and strongly acid
materials.

SECTION 8: Exposure controls/personal protection

A.Exposures limit value,biological limit value etc

- Silicon dioxide
 - Domestic Provision TWA: 10mg/m3 silicon oxide (amorphous, other dust)
 - ACGIH Provision no data available
 - Biological limit values no data available
 - Other limit values no data available
- Styrene
 - Domestic Provision TWA: 20ppm STEL: 40ppm (acceptance standard)
 - ACGIH Provision TWA 20 ppm mg/m^3 STEL 40 ppm mg/m^3
 - Biological limit values no data available
 - Other limit values no data available
- Ester Resin
 - Domestic Provision no data available
 - ACGIH Provision no data available
 - Biological limit values no data available
 - Other limit values no data available

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
b) Odour	Organic solvent odor
c) Odour threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point(closed cup, °C)	31
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapor pressure	no data available
l) Solubility	no data available
m) Vapor density	no data available
n) Relative density	1.02~1.22
o) Partition coefficient(n-octanol/water)	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	60000-90000
s) Molecular mass	no data available

SECTION 10: Stability and reactivity

A. Stability & hazardous reaction potential	Stability : Stable under normal temperature conditions Hazardous reaction potential : Hazardous polymerization does not occur
B. Condition to avoid	Heat, flame and sparks
C. Incompatible materials	Flammable material, strong oxidizing agent, acid, amine
D. Hazardous decomposition products	Toxic gas,fume, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

Information on the likely routes of exposure

Breathing through the respiratory tract

Acute toxic(Inhalation-gas) [Not applicable], Acute toxic(Inhalation-vapour) [Category 5], Acute toxic(Inhalation-dust and mist) [Not applicable], Respiratory sensitization [Not applicable], Aspiration hazard [Category 1]

Integrated mouth intake

Acute toxic(Oral) [Not applicable]

Skin contact

Acute toxic(Dermal) [Not applicable], Skin corrosive/irritant [Category 2], Skin sensitization [Not applicable]

Eye contact

serious eye damage/eye irritation [Category 2]

Health hazards information

Silicon dioxide

Acute toxic(Oral)	no data available
- Acute toxic(Dermal)	no data available
- Acute toxic(Inhalation-gas)	no data available
- Acute toxic(Inhalation-vapour)	no data available
- Acute toxic(Inhalation-dust and mist)	no data available
- Skin corrosive/irritant	no data available
- serious eye damage/eye irritation	no data available
- Respiratory sensitization	no data available
- Skin sensitization	no data available
- Germ cell mutagenicity	no applicable
- Carcinogenicity	no data available
- Reproductive toxicity	no data available
- Specific Target Organ Toxicity-Single Exposure	no data available
- Specific Target Organ Toxicity-Repeated Exposure	no data available
- Aspiration hazard	no data available

Styrene

Acute toxic(Oral)	no data available
- Acute toxic(Dermal)	no data available
- Acute toxic(Inhalation-gas)	no data available
- Acute toxic(Inhalation-vapour)	Category 4
- Acute toxic(Inhalation-dust and mist)	no data available
- Skin corrosive/irritant	Category 2
- serious eye damage/eye irritation	Category 2
- Respiratory sensitization	no data available
- Skin sensitization	no data available
- Germ cell mutagenicity	Category 2
- Carcinogenicity	Category 2
- Reproductive toxicity	Category 2
- Specific Target Organ Toxicity-Single Exposure	Category 3(Respiratory tract irritation)
- Specific Target Organ Toxicity-Repeated Exposure	Category 1
- Aspiration hazard	Category 1

Ester Resin

- Acute toxic(Oral)	No data available
- Acute toxic(Dermal)	No data available
- Acute toxic(Inhalation-gas)	No data available
- Acute toxic(Inhalation-vapour)	No data available
- Acute toxic(Inhalation-dust and mist)	No data available
- Skin corrosive/irritant	No data available
- serious eye damage/eye irritation	No data available
- Respiratory sensitization	No data available
- Skin sensitization	No data available
- Germ cell mutagenicity	No data available
- Carcinogenicity	No data available
- Reproductive toxicity	No data available
- Specific Target Organ Toxicity-Single Exposure	No data available
- Specific Target Organ Toxicity-Repeated Exposure	No data available
- Aspiration hazard	No data available

SECTION 12: Ecological information

a) Aquatic and terrestrial ecotoxicity

Silicon dioxide

- Environmental Toxicity(Acute)	No data available
- Environmental Toxicity(chronic)	No data available

for fish : no data available, for crustacea : no data available, for algae : no data available

Ester Resin

- Environmental Toxicity(Acute)	No data available
- Environmental Toxicity(chronic)	No data available

for fish : no data available, for crustacea : no data available, for algae : no data available

b) Persistence and degradability

Silicon dioxide

- Persistence	No data available
- Degradability	No data available

Styrene

- Persistence	No data available
- Degradability	No data available

Ester Resin

- Persistence	No data available
- Degradability	No data available

c) Bioaccumulative potential

Silicon dioxide

- Bioconcentration	No data available
- Biodegradable	No data available

Styrene

- Bioconcentration	No data available
- Biodegradable	No data available

Ester Resin

- Bioconcentration	No data available
- Biodegradable	No data available

- d) Mobility in soil
- Silicon dioxide No data available
 - Mobility in soil
 - Styrene No data available
 - Mobility in soil
 - Ester Resin No data available
 - Mobility in soil
- e) Other adverse effects
- Silicon dioxide
 - Other adverse effects No data available
 - Styrene
 - Other adverse effects No data available
 - Ester Resin
 - Other adverse effects No data available

SECTION 13: Disposal considerations

- A. Disposal methods Recommendation: Emptied containers should be recycled as scrap or reconditioned ,as appropriate. Containers which are not properly emptied must be treated as special waste.
- B. Disposal Considerations Observe national and local legal requirements.

SECTION 14: Transport information

- A. UN number 1263
- B. UN Proper shipping name PAINT
- C. Transport hazard class Class 3
- D. Packing group 3
- E. Environmental hazards Not available
- In case of fire emergency F - E
- Emergency spill S - E

SECTION 15: Regulatory information

- Industrial Safety and Health Act No data available
- Toxic Chemical Control Act No data available
- Dangerous Material Safety Control Act No data available
- Wastes Management Act No data available
- Other requirements in domestic and other countries No data available

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