

1. IDENTIFICATION

Product identifier

Product Name Epoxy Patch Additive

Other means of identification

Product Code
SKU(s) 4064PA

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
 1415 5th Street North
 St. Cloud, MN 56303
 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)

Serious eye damage/eye irritation	Category 1
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Emergency Overview

Danger

Hazard statements

May cause cancer. Causes serious eye damage



Appearance Light cream powder **Physical state** Powder **Odor** Slight isopropanol-like and amine-like

Precautionary Statements - Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear respiratory protection.

If high dust conditions wear protective gloves/protective clothing/eye protection/face protection.

Wash face, hands, and any exposed skin thoroughly after handling

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC) Other Information

- This product may generate dust during handling and use.
- This product may contain quartz (crystalline silica).
- Long term overexposure to crystalline silica dust may cause silicosis.
- A prolonged or repeated exposure via inhalation may cause cancer to lungs.
- IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans.
- Risk of injury is dependent on the duration and level of exposure

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	Trade Secret
Quaternary ammonium compounds, benzyl-C14-18-alkyldimethyl, chlorides	68390-98-7	<15	*

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

4. FIRST AID MEASURES

Description of first aid measures

Eye contact	In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical advice. Seek medical advice if irritation persists, or if there is tissue damage.
Skin Contact	No information available.
Inhalation	Allow resting in a well-ventilated area if high concentration is inhaled and mechanical irritation or discomfort occurs. Seek medical attention if irritation persists.
Ingestion	Rinse mouth with water. Obtain medical advice. Keep at rest. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms Mechanical Irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Unsuitable extinguishing media For safety reasons do not use full water jet.

Specific hazards arising from the chemical

Combustion products of the organic component are CO, CO₂, and even traces of NO_x.

Protective equipment and precautions for firefighters

No special requirements.

Do not allow spillage of fire to be poured into drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid dust formation. Avoid breathing dust and contact with eyes. Use respiratory protection if high dust conditions, chemical resistant gloves and safety glasses.

Environmental precautions

Environmental precautions

Do not discharge into any drains, surface waters or groundwaters.

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

Scoop up or vacuum soil spillages, if appropriate, use gentle water spray to wet down. Ventilate area and wash spill site after material pickup is complete. Place in a closed container prior to disposal. Dispose of in accordance with current laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with the eyes, skin, and clothing. Wear protective clothing and use glasses. Provide suitable air extraction ventilation in the work areas. Vapors may form explosive mixtures with air. Observe the rules of hygiene and safety at work. Keep only in the original container.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in dry area. Keep away from incompatible materials (see section of incompatibility). Do not store this material near food or drinking water. To be stored in tightly sealed and preferably full containers in cool, dry, and ventilated area.

Incompatible materials

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

TWA (8h): 15 mg/m³ (total); 5 mg/m³ (respirable) as PNOR (OSHA); 10 mg/m³ (total); 3 mg/m³ (respirable) as PNOR (ACGIH)

Respect regulatory provisions for dust (inhalable and respirable)

Other Information None known based on information supplied.

Appropriate engineering controls

Engineering Controls General ventilation.
Local exhaust ventilation is recommended to keep airborne dust levels below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

Skin and body protection Light protective clothing recommended. Wash contaminated clothing before reuse.

Respiratory protection Use air-purifying dust respirator if airborne dust concentration is above exposure limits. In the case of brief exposure, use a device filter.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Powder	Odor	Slight isopropanol-like and amine-like
Appearance	Light cream powder	Odor threshold	No information available
Color	Light cream		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	No information available		
Melting point / freezing point	1550 °C / 2822 °F		
Boiling point / boiling range	No information available		
Flash point	Not applicable		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	Particle size (median value): 10.7 µm Minimum Ignition Temperature (MET): 590°C (EN 50281-2-1:1999) Minimum Ignition Energy (MIE): >1000 mJ (EN 13821:2003) Minimum Ignition Temperature of dust layer: >400°C (EN 50281-2-1:1999)		
Lower flammability limit:	Lower Explosion Limit: >1500 g·m ⁻³ (EN 14034-3:2006) Maximum Explosion Overpressure 3.8 bar (EN 26184-1:1993) Maximum rate of explosion pressure rise (dp/df) max: 190 bar·s ⁻¹ Kmax Value: 52 bar·m·s ⁻¹ (EN 26184-1:1993) Dust Explosion Class: St1		
Vapor pressure	No information available		
Vapor density	No information available		
Relative density	2.1		
Specific Gravity	No information available		
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

No information

Softening point	No information available
Molecular weight	No information available
Liquid Density	No information available
Bulk density	No information available
Percent solids by weight	No information available
	No information available
	No information available
	No information available
	No information available
	No information available

Percent volatile by weight
 Percent solids by volume
 Actual VOC (lbs/gal)
 Actual VOC (grams/liter)
 EPA VOC (lbs/gal)
 EPA VOC (grams/liter)
 EPA VOC (lb/gal solids)

10. STABILITY AND REACTIVITY

Reactivity

No hazardous reactions are expected

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

No special requirements.

Incompatible materials

None known.

Hazardous decomposition products

Combustion by-products of the organic component are CO, CO₂ and even traces of NO_x.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No data available

Inhalation	Inhalation of high concentrations may cause irritation.
Eye contact	May cause eye irritation if exposed to large amounts of dust.
Skin Contact	Skin irritation may result from physical contact.
Ingestion	No data available.

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.

Information on toxicological chronic effects

Sepiolite has no carcinogenic effects as it has been demonstrated by epidemiological, in vitro and in vivo studies.

Sepiolite is classified by IARC as class 3 ("Cannot be classified as to carcinogenicity to humans"). This product may contain quartz (crystalline silica). In 1997, IARC concluded that the respirable fraction of crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated (IARC Monographs, Vol 68) A prolonged or repeated exposure via inhalation may cause cancer to lungs. IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.

Other relevant information

No mutagenic, teratogenic, or developmental toxicity effects are known There is body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity CL50 (72h, algae): 1.3 mg/l (OCDE 201)
 CE50 (48h, daphnia): 5.4 mg/l (OCDE 202)
 CL50 (96h, fish): 18 mg/l (OCDE 203).

Persistence and degradability

Easily biodegradable.

Bioaccumulation

Not bioaccumulative.

Soil mobility

No information available

Results of PBT and vPvB assessment

No information available

Other adverse effects

See also Sections 6, 7, 13 and 15

Avoid contamination of soil, groundwater and surface water.

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.

14. TRANSPORT INFORMATION

<u>ADR/RID</u>	Substance/mixture is not classified as hazardous for transport
<u>IMDG</u>	Substance/mixture is not classified as hazardous for transport
<u>IATA</u>	Substance/mixture is not classified as hazardous for transport

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Other:	No information available.
Authorizations:	No information available.
Usage:	No information available.

Chemical Safety Assessment

Chemical Safety Assessment:	No information available.
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16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Revision Date	15-Dec-2015
Revision Note	
No information available	

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