

MATERIAL SAFETY DATA SHEET

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

1.1 Product identifier

Product name. UE-POLYASPARTIC UPA-4101A / 2101A (Part A)

1.2 Recommended use and restriction on use Concrete floor top coat

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

Health hazards Skin Sens. 1; H317: May cause an allergic skin reaction.
Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

GHS label elements, including
precautionary statements
Hazard symbols

:



Signal words
Hazard statements

Warning
H317 May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements
Prevent

Prevention:
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.

Material Safety Data Sheet

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| Response | <p>P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P302+P352 IF ON SKIN: Gently wash with plenty of soap and water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P314 Get medical advice/attention if you feel unwell. P321 Specific treatment (see ... on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362 Take off contaminated clothing and wash before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P391 Collect spillage.</p> |
| Storage | <p>P403+P233 save to save. Stored at 50~95°F at the same time in the state when water-based products should not be frozen</p> <p>Take a look. To store in steel or stainless steel or plastic containers</p> |
| Disposal | <p>P501 Disposed of contents/container in accordance with local/regional/national regulation.</p> |

General Information: This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas.

SECTION 3: Composition/information on ingredients

| Chemical name | CAS No | Content (%) |
|---|-------------|--------------|
| Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester | 136210-30-5 | Trade Secret |
| Aspartic Acid, N, N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-,1,1',4,4''-tetraethyl ester | 136210-32-7 | Trade Secret |

SECTION 4: First aid measures

General advice: Seek medical advice or medical attention if condition persists.

Eye contact: Rinse immediately with plenty of water for at least 15 minutes.

Skin Contact: Immediately remove any extraneous chemical, if possible without delay. Take off contaminated clothing and shoes immediately. Wash body off with soap and plenty of water.

Ingestion: Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position and turn victim's head to the side. Do not induce vomiting.

Inhalation: Move to fresh air. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Notes to Physician: No specific treatment. Treat symptomatically. Call the poison control center immediately if large quantities have been ingested. Corticosteroid cream has been effective and treating skin irritation in similar products with similar chemistries.

SECTION 5: Firefighting measures

Suitable Fire Extinguishing Media: Carbon dioxide (CO₂). Foam. Dry chemical. Water Fog.

Specific hazards: May generate ammonia gas. May generate toxic nitrogen oxide gases. **Do not allow run-off from fire-fighting to enter drains or water courses.** Incomplete combustion may form carbon monoxide (CO) and nitrogen oxides (NO_x). Ammonia gas may be liberated at high temperatures. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Special protective equipment for fire-fighters: Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Danger of Explosion: This product does not present an explosion hazard.

Flammable Limits: Not available.

Explosion Limits: Not Available.

Auto-Ignition Temperature: 335°C (635°F)

Flash Points: 94°C (201°F) [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)]

SECTION 6: Accidental release measures

Personal Precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental Precautions: Water polluting material. May be harmful to the environment if released in large quantities. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform authorities if the product has caused environmental pollution.

Methods for Cleaning up: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7: Handling and storage

Handling: Put on appropriate personal protective equipment, PPE (see Section 8). Eating and drinking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated PPE or clothing, wash hands and face before eating and drinking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Use only in area provided with appropriate exhaust ventilation. Empty containers retain product residue and can be hazardous. Do not get in eyes, skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment.

Storage: Store between 4-40°C (40-104°F) in accordance with local regulations away from sources of heat, ignition, and direct sunlight. Store in original container. Keep in a dry, well-ventilated area, and away from incompatible materials (see section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled, unapproved or reactive containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: Exposure controls/personal protection

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

OSHA PEL (TWA): Not Determined

ACGIH TLV (TWA): Not Determined

NIOSH REL (TWA): Not Determined

Material Safety Data Sheet

Engineering measures: Work in well ventilated area. Provide natural air movement or fan to ensure adequate ventilation, especially in confined area. Avoid contact with skin, eyes, and clothing.

Environmental exposure controls: Construct a dike to prevent spreading. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating and drinking, smoking or using the lavatory and at the end of the working period. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection:

Respiratory - In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eyes - Splash proof safety glasses.

Skin - Rubber or plastic apron. Rubber or plastic gloves. Long sleeved clothing or wear protective sleeves. Remove and wash contaminated clothing before re-use.

Other protective equipment information - Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Neoprene gloves. PVC disposable gloves. Nitrile rubber. Butyl-rubber. Impervious gloves. (The breakthrough time of the selected glove(s) must be greater than the intended use period.)

SECTION 9: Physical and chemical properties

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| Form: | Liquid |
| Odor: | Mild |
| Color: | Pale Yellow |
| PH Value: | Alkaline |
| Boiling Point: | >235°C (>455°F) |
| Melting Point: | Not Determined |
| Vapor Pressure: | <20.68 mmHg @ 21°C (71°F) |
| Vapor Density: | Not Determined |
| Density (Nominal): | >1 g/cm ³ |
| Solubility in water: | Nil |
| Evaporation Rate (Butyl Acetate = 1): | Not Determined |
| Volatile Organic Compounds: | Nil |

SECTION 10: Stability and reactivity

Chemical stability: Stable under normal conditions. Hazardous reactions will not occur.

Conditions to avoid: Direct source of heat.

Materials to avoid: Strong oxidizers, acids and bases.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

Reactive metals (e.g. sodium, calcium, zinc etc.).

Hazardous decomposition products: Carbon monoxide (CO). Carbon dioxide(CO₂). Ammonia. Flammable hydrocarbon fragments (e.g., acetylene).Nitrogen oxides (NO_x).

Nitrogen oxide can react with water vapors to form corrosive nitric acid.

Hazardous polymerization: Under normal conditions hazardous polymerization will not occur.

SECTION 11: Toxicological information

Aspartic Acid, N, N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-,1,1',4,4''-tetraethyl ester
(CAS 136210-32-7)

LD50 Oral Rat >2,000 mg/kg LC50 Inhalation Rat >4,224 mg/l, 4h

LD50 Dermal Rat >2,000 mg/kg

Skin Corrosion/Irritation (Rabbit, 24h): None

Skin Sensitization (Guinea Pig): Positive

Carcinogenicity: OSHA Not Listed. IARC Not Listed. NTP Not Listed.

SECTION 12: Ecological information

Aspartic Acid, N, N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-,1,1',4,4''-tetraethyl ester
(CAS 136210-32-7) and Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester:

Acute Toxicity to Fish: LC50 66 mg/l (Zebra Fish, 96h), LC50 88.6 mg/l (Water Flea, 96h)

Acute Toxicity to algae: ErC50 113 mg/l.

Persistence and Degradability: Not readily degradable.

Bioaccumulative Potential: Bioaccumulation ca. 8,228 BCF.

Other Adverse Effects: Toxicity to terrestrial Plants: EC50 ≥ 100 mg/kg, 14d)

Other Information: Toxicity to Microorganisms: EC 50: 3,110 mg/l (bacteria, 3 h).

SECTION 13: Disposal considerations

Waste Disposal: 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

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| A. UN number | Not dangerous goods |
| B. UN Proper shipping name | Not dangerous goods |
| C. Transport hazard class | Not dangerous goods |
| D. Packing group | Not dangerous goods |
| E. Environmental hazards | Not dangerous goods |
| F. Specific precautions for user related transport | No special precautions or requirements for transport |
| In case of fire emergency | |
| Emergency spill | |

SECTION 15: Regulatory information

A. National and/or international regulatory information

OSHA: This product is considered to be a hazardous chemical under 29 CFR 1910.1200.

SARA Section 311 AND 312 - This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: ACUTE

SARA Section 313 - This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None

California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) - This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

Canadian WHMIS: D2B: Toxic material causing other toxic effects

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 hazard communication.

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