

SAFETY DATA SHEET

Product Name: UDT Urethane Remover

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Manufacturer/Distributor Name: Ultra Durable Technologies, Inc.
1415 5th St N
St. Cloud, MN 56303
1-800-722-2998 www.ultradt.com

Emergency Phone Numbers: CHEMTREC within the United States 1-800-424-9300
CHEMTREC within Canada +1-703-527-3887

Product Type Liquid

SECTION 2 – HAZARDS IDENTIFICATION

Classifications:

Health: Category 2
Flammability: Category 4
Reactivity: Category 5
Pictograms:



Signal Words: Danger

Hazard Statements:

H332: Harmful if inhaled.
H314: Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention:

P261: Avoid breathing vapor.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves. Wear protective clothing. Wear eye or face protection.

Response:

P301+P310+P330+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
P302+P361+P353+P363+P310: IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.
P304+P340+P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P304+P340+P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with all local, regional, national and international regulations.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixture		
Ingredient name	%	CAS number
Benzyl alcohol	≥29 - <47	100-51-6
Naphtha (petroleum), hydrotreated heavy	≥3 -<3.8	64742-48-9
2-aminoethanol	≥1.6 - <2.5	141-43-5

SECTION 4 – FIRST AID MEASURES

Description of first aid measures:

After inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

After skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

After eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

After swallowing: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed: Causes serious eye damage. Harmful if inhaled. Causes severe burns. Defatting to the skin.

Over-exposure signs/symptoms:

Eye contact: Pain, watering, redness

Skin contact: Pain or irritation, redness, dryness, cracking, blistering may occur

Ingestion: Stomach pains

Indication of any immediate medical attention and special treatment needed: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5 – FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: Use an extinguishing agent suitable for the surrounding fire.

Special hazards arising from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products: Carbon dioxide, carbon monoxide, nitrogen oxides

Advice for firefighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). Dispose of via a licensed waste disposal contractor. 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

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Special precautions: If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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 containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits:	
Ingredient name	Exposure limits
Benzyl alcohol	IPEL (PPG) TWA: 10 ppm STEL: 50 ppm
2-aminoethanol	ACGIH TLV (United States, 4-2014) STEL: 15 mg/m ³ 15 minutes STEL: 6 ppm 15 minutes TWA: 7.5 mg/m ³ 8 hours TWA: 3 ppm 8 hours. OSHA PEL (United States, 2/2013) TWA: 6 mg/m ³ 8 hours TWA: 3 ppm 8 hours

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: 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.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Chemical splash goggles and face shield.

Skin protection

Hand protection: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves: For prolonged or repeated handling, use nitrile rubber gloves.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Liquid **Color:** Off-White **Odor:** Not available **Odor threshold:** Not determined.

pH-value: Not available

Melting point/Melting range: Not available

Boiling point: 100°C (212°F)

Flash point: Closed cup: 100°C (212°F)

Material supports combustion: Yes

Flammability (solid, gaseous): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Auto igniting: Not available

Lower: Not available **Upper:** Not available

Vapor pressure: Not applicable.

Density (lbs/gal): 8.43

Relative density: 1.01

Vapor density: Not available

Evaporation rate: Not available

Solubility: Partially soluble in the following materials: cold water

Partition coefficient (n-octanol/water): Not available

Viscosity: Kinematic (40°C (104°F)): <0.07 cm²/s (<7 cSt)

VOC: 440 g/l **% Solid. (w/w):** 6.5

SECTION 10- STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.

Incompatible materials: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11- TOXICOLOGICAL INFORMATION

Information on toxicological effects

Primary irritant effect:

On the skin: There are no data available on the mixture itself.

On the eye: There are no data available on the mixture itself.

Sensitization: There are no data available on the mixture itself.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
Naphtha (petroleum), hydrotreated heavy	LC50 Inhalation Vapor	Rat	8500 mg/m ³	4 hours
	LD50 Oral	Rat	>6 g/kg	-
2-aminoethanol	LD50 Dermal	Rabbit	1 g/kg	-
	LD50 Oral	Rat	1720 mg/kg	-

Specific target organ toxicity (single exposure)

Name	Category
Naphtha (petroleum), hydrotreated heavy	Category 3
2-aminoethanol	Category 3

Specific target organ toxicity (repeated exposure): Not available

Target organs: Contains material which causes damage to the following organs: blood, kidneys, liver, heart, brain, central nervous system (CNS). Contains material which may cause damage to the following organs: the nervous system, gastrointestinal tract, upper respiratory tract, skin, eye, lens or cornea, testes.

Aspiration hazard

Name	Result
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD – Category 1

Information on the likely routes of exposure

Potential acute health effects

Inhalation : Harmful if inhaled.

Ingestion : No known significant effects or critical hazards.

Skin contact : Causes severe burns. Defatting to the skin.

Eye contact : Causes serious eye damage.

Over-exposure signs/symptoms

Eye contact: pain, watering redness.

Inhalation: No data.

Skin contact: pain or irritation, redness, dryness, cracking, blistering may occur.

Ingestion: Stomach pains.

Delayed and immediate effects and also chronic effects from short and long term exposure

Conclusion/Summary: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Potential chronic health effects: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Acute toxicity estimates:

Route	ATE value
Oral	3216.8 mg/kg
Dermal	4946.9 mg/kg
Inhalation (gases)	11597 ppm
Inhalation (vapors)	25.77 mg/l
Inhalation (dusts and mists)	3.866 mg/l

SECTION 12- ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
2-aminoethanol	Acute EC50 8.42 mg/l Fresh water	Algae – Desmodesmus subspicatus	72 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Benzyl alcohol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP ow	BCF	Potential
Benzyl alcohol	1.1	-	Low
2-aminoethanol	- 1.31	-	Low

Mobility in soil: No further relevant information available.

SECTION 13-DISPOSAL CONSIDERATIONS

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures.

SECTION 14 -TRANSPORT INFORMATION

UN-Number: DOT, IMDG, IATA	Not regulated
UN proper shipping name: DOT, IMDG, IATA	Void
Transport hazard class(es): DOT, IMDG, IATA	Void
Packing Group: DOT, IMDG, IATA	Void
Environmental hazards: DOT, IMDG, IATA	No
Marine pollutant DOT, IMDG, IATA	Not applicable

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15- REGULATORY INFORMATION

United States inventory (TSCA 8b): All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

Canada inventory (DSL): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Europe inventory (REACH): Please contact your supplier for information on the inventory status of this material.

Japan inventory (ENCS): All components are listed or exempted.

Korea inventory (KECI): All components are listed or exempted.

New Zealand (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

United States

SARA 302/304: Not applicable

SARA 311/312: Immediate (acute) health hazard

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Benzyl alcohol	No	No	No	Yes	No
Naphtha (petroleum), hydrotreated heavy	Yes	No	No	Yes	No
2-aminoethanol	Yes	No	No	Yes	No

SECTION 16 - OTHER INFORMATION

Revision Date: 05/12/2017

Hazardous Material Information System (U.S.A.)

Health: 3 Flammability: 1 Physical Hazards: 0

The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to Ultra Durable Technologies as described in Section 1.