

SAFETY DATA SHEET

BTE VTAE Flux

Section 1: Product and Company Identification

Product Identifier	Vacuum Tower Asphalt Extender	
Other Means of Identification	VTAE, Asphalt Flux, Asphalt Extender	
Recommended Use	Re-refined Used Oil Residue Mixture	
Recommended Restrictions	None known	

Manufacturer/Importer/Supplier/Distributor Information

Company Name	Blue Tide Environmental, LLC	
Address	5841 Legacy Circle, Suite 250D Plano, TX 75024	
Telephone	Technical Questions	(469) 956-3336
Website	www.bluetideenv.com	
Emergency Phone Number	Chemtrec	(800) 424-9300

Section 2: Hazard Identification

Label Elements

Physical Hazards	Not Classified
Health Hazards	Not Classified
Environmental Hazards	Hazardous to the aquatic environment, acute. Category 3 hazard
OSHA Defined Hazards	Not classified
Hazard Symbol	None
Signal Word	None
Hazard Statement	May be harmful to aquatic life
GHS Symbol	No Symbol
Prevention	Keep away from heat/sparks/open flames/hot surfaces – No Smoking
Response	Case of fire: use dry chemical, foam, carbon dioxide, if material is hotter than 93°C (200°F), an explosion may occur using water. If eye/skin irritation occurs: 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 ON SKIN: Wash with soap and water. Wash contaminated clothing before reuse
Storage	Store in a well ventilated place
Disposal	Dispose of contents/container with compliance to federal, state and local regulations

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Hazards Not Classified	None known
Supplemental Information	Hydrogen Sulfide (H ₂ S) can accumulate in the headspace of storage tanks and reach potentially hazardous concentrations

Section 3: Composition/Information on Ingredients

Synonyms: Re-refined Used Oil Mixture, Co-product

Formula: Mixture

Molecular Weight: Variable

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Wt%</u>
Lubricating Oils, Used, Vacuum Residues	129893-17-0	<100
Hydrogen Sulfide	7783-06-4	<0.1

Section 4: First Aid Measures

Inhalation	Vapor or mist from hot material in enclosed area may contain high concentrations of hydrogen sulfide. If breathing difficulty exists, remove individual away from exposure and into fresh air. Seek medical attention. If breathing remains difficult, administer oxygen, keep person warm and quiet, and seek immediate attention.
Skin Contact	Contact with hot material may cause thermal burns, immediately cool affected area with water until material solidifies. Cover with sterile dressing and seek medical attention. Remove contaminated clothing until thoroughly cleaned and laundered. Seek medical attention for persistent irritation.
Eye Contact	Contact with hot material may cause thermal burns. Move individual away and into fresh air. Immediately flush eyes with large amounts of fresh water and continue flushing until irritation subsides. Seek medical attention.
Ingestion	Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth, place individual on the left side with head down and call emergency contacts. Contact a

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	physician, medical facility, or poison control center for advice about whether to induce vomiting. Do not leave individual unattended.
Skin Injection	If product is injected into or under skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Section 5: Fire Fighting Measures

Suitable extinguishing media	Use dry chemical, foam, carbon dioxide
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread fire.
Specific hazards from combustion	Carbon monoxide, carbon dioxide, hydrogen sulfide, nitrogen oxides may be products of combustion. Combustion materials may be toxic
Special protective equipment and precautions for firefighters	Wear full firefighting turn-out gear (full bunker gear), and respiratory protection (SCBA). DO NOT use water on material that is hotter than 93°C (200°F), as an explosion may result
Specific methods for firefighters	Use standard firefighting procedures and consider the hazards of other involved materials
General Fire Hazards	Will burn if involved in a fire

Section 6: Accidental Release Measures

Personal precautions and protective equipment	Personal protection, see section 8 for details. Any individual not wearing protective equipment should not enter spill or contaminated area until all clean-up has been completed. Before entering storage space in a confined area, check the atmosphere for oxygen content, hydrogen sulfide and flammability. Ensure adequate ventilation.
Emergency procedures	For personal emergency procedures see section 4. For fire emergency procedures see section 5. Contain spilled oil liquid if possible without posing any risk or personal injury.
Methods and materials for containment and cleaning up	Eliminate all ignition sources. The product is immiscible with water. Prevent it from entering drains. Soak up or absorb with appropriate inert materials such as: sand, clay, silica gel, acid binder, universal binder, sawdust, paper fiber, etc. Large spills

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	may be picked up using vacuum pumps, shovels, buckets or other means of transfer and placed into drums or any other approved and suitable containers.
Environmental Precautions	Prevent spreading over wide area. Contain spill immediately. Contact appropriate authorities of spill. Do not allow spill to enter sewer system, drains of any kind, surface water or water courses. Avoid flushing to such areas as well. Remove all sources of ignition.

Section 7: Handling and Storage

Precautions for Safe Handling	This product is classified as elevated temperature material under DOT regulations. See NFPA 30 and OSHA 1910.106 flammable and combustible liquids. Keep away from heat/sparks/open flame/hot surfaces – No Smoking. Store in a well-ventilated place. Do not breathe vapor or mist.
Conditions for Safe Storage	Store in only approved and marked containers. Store in a dry, ventilated area. Keep containers closed when not in use and during transportation. Keep containers away from flame or other ignition sources.
Incompatibilities	Heat, sparks, flame, oxidizing materials, acids and halogens. Avoid contact with water

Section 8: Exposure Controls / Personal Protection

Occupational Exposure Limits

OSHA Table Z-2 (29 CFR 1910.100) Components	Type	Value
Hydrogen Sulfide (7783-06-4)	Ceiling	20ppm
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Components	Type	Value
Hydrogen Sulfide (7783-06-4)	STEL	5ppm

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Safety glasses with side protection is required. If material is handled such that it could be splashed or misted into eyes, wear plastic face shield or splash resistant safety goggles or glasses with side shields.
Hand Protection	Hand protection is required. Wear resistant gloves suitable for the product, contact your safety department or supplier to

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	determine the proper hand protection.
Skin and body protections	Use impervious clothing (boots, gloves, aprons, bibs, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing. Launder soiled clothes, do not reuse contaminated clothing. Properly dispose of contaminated clothing or articles that cannot be laundered such as leather gloves, boots, ets. If skin irritation occurs, get medical advice/attention. Contact your facility safety department or safety supplier to determine the proper protective equipment for your use.
Respiratory Protection	If vapor mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Fit testing may be required before use. Do not use compressed oxygen in hydrocarbon atmospheres. Adequate ventilation in accordance with good engineering practices must be provided to maintain concentrations below the specified exposure or flammable limits.
General Hygiene Considerations	Do not use contaminated clothing, launder clothing before reuse. Wash contaminated areas of the body which may have been exposed with soap and water. Wash thoroughly before handling food and beverages. Food and beverage consumption should be avoided in work areas where hydrocarbons are present.

Section 9: Physical and Chemical Properties

Appearance	Black viscous
Physical State	Semi-solid, liquid when hot
Odor	Petroleum oil
Odor Threshold	10 ppm (H ₂ S)
API Gravity	10.0-19.0
Boiling Point	426°C (800°F Min.)
Molecular Weight	>525
Initial Boiling Point and Boiling Range	>550°F (287.8°C)
Flash Point (C.O.C)	>500°F
Upper/lower Flammability or Explosive Limits	No data available
Vapor Pressure	<0.2mm Hg@80°C
Solubility in water	Insoluble
Liquid viscosity (cSt@100°C)	>1000
Autoignition temperature	485°C (905°F)
Gravity/Density (ASTM D4402)	0.9405-0.9970
Viscosity @60°C (ASTM D2171)	>370
Viscosity @100°C (D445)	>5000 cSt
Pounds Per Gallon	Report

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Section 10: Stability and Reactivity

Reactivity	May react strong with oxidizing agents
Chemical Stability	Stable under normal temperatures and pressures
Possibility of Hazardous Reactions	Product will not undergo hazardous polymerization
Conditions to Avoid	Heat, open flames, water when material is hot
Incompatible Materials	Strong oxidizing agents, acids, halogens
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, hydrogen sulfide, nitrogen oxide and other toxic materials are possible

Section 11: Toxicological Information

Information on Likely Routes of Exposure:

Ingestion	May cause discomfort if swallowed.
Inhalation	Prolonged inhalation may be harmful. At elevated temperatures, vapor may cause irritation of respiratory tract. Inhaling hydrogen sulfide released from this product may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, convulsions, death.
Skin Contact	Contact with hot material can cause thermal burns. For cooled product, may cause irritation.
Eye contact	At the elevated temperatures, vapor may cause irritation of eyes. Contact with hot material can cause thermal burns.

Information on Toxicological Effects

Acute Toxicity	Contains hydrogen sulfide. May rapidly cause irritation, breathing failure, coma, and death without necessarily any warning odor being detected
Component Analysis – LD50/LC50	Hydrogen Sulfide (CAS 7786-06-4) Inhale LC50 Rat 700mg/m ³ , 4h
Respiratory Sensitization	Not a respiratory sensitizer
Skin Sensitization	This product is not expected to cause skin sensitization
Germ Cell Mutagenicity	Based on current information, there is no known mutagenicity related to this product
Carcinogenicity	IARA Monographs, NTP, OSHA Specifically Regulated substances (29 CFR1910, 1001-1053): Not listed
Reproductive Toxicity	Not expected to cause reproductive or developmental effects
Specific Target Organ Toxicity	Single Exposure – No target organs identified Repeated Exposure – No target organs identified
Aspiration hazard	Not an aspiration hazard

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Chronic effects	Prolonged inhalation may be harmful. Individuals with pre-existing respiratory trace, eye, and or skin disorders may have increased susceptibility to the effects of exposure
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Section 12: Ecological Information

Ecotoxicity	Harmful to aquatic life Hydrogen Sulfide: CAS 7783-06-4 Fish: LC50 96 h Lepomis macrochirus 0.0448 mg/L [flow-through]; LC50 96 h Pimephales promelas 0.016 mg/L [flow-through]
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	This product is insoluble in water and has a low mobility in the environment
Other Adverse Effects	None known

Section 13: Disposal Considerations

Disposal Methods	All disposals must comply with federal, state and local regulations. Spilled or discarded material may be a regulated waste. Refer to state and local regulations. If other material was used during cleanup efforts, the resultant mixture may be regulated differently and determination may be required.
Local Disposal Regulations	Dispose in accordance with applicable regulations

Section 14: Transport Information

DOT Information

UN Number	UN3257
Shipping Name	Elevated Temperature Material, Liquid, n.o.s.,(Flux)
Transport Hazard Class	9
Packing Group	III
Additional Information	DOT is applicable when transporting temperature is greater than 100°C, (212°F).

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	Otherwise, Not Regulated Material
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IATA Information

UN Number	UN3257
Shipping Name	Elevated Temperature Material, Liquid, n.o.s.,(Flux)
Packing Group	III
Additional Information	When product is less than 100°C (212°F).

IMDG Information

UN Number	UN3257
Shipping Name	Elevated Temperature Material, Liquid, n.o.s.,(Flux)
Packing Group	III
Additional Information	When product is less than 100°C (212°F).

Section 15: Regulatory Information

US Federal Regulations: This product is not known to be a “Hazardous Chemical” as defined by the OSHA communication standard. 29 CFR 1910.1200

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)	Hydrogen Sulfide (7783-06-4) Listed
SARA Section 304 Emergency Release Notification	Hydrogen Sulfide (7783-06-4) 100 lb final
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not listed
Toxic Substances Control Act (TSCA)	All components on the TSCA 8(b) are designated ‘active’
California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)	Not listed under California Proposition 65

US State Regulations

US Massachusetts RTK – Substance List	Hydrogen Sulfide (7783-06-4)
US New Jersey Worker and Community Right-to-Know Act	Hydrogen Sulfide (7783-06-4)
US Pennsylvania Worker and Community Right-to-Know Law	Hydrogen Sulfide (7783-06-4)
US Rhode Island RTK	Hydrogen Sulfide (7783-06-4)
US California Proposition 65	Hydrogen Sulfide (7783-06-4)

Component Analysis - Inventory

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Lubricant Oils, used, residues	129893-17-0
CA	DSL
AU	NO
CN	NO
EU	NO
JP-ENCS	NO
MX	NO

Section 16: Other Information

NFPA Hazard Classification

Health	0
Flammability	1
Reactivity	0



HMIS Classification

Health	0
Flammability	1
Physical Hazards	0
Personal Protection	C 0

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C 0

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