


1. Product and Company Identification					
<u>GROUP HEADOFFICE</u> Sripath Technologies®, LLC 115 Franklin Turnpike, #250, Mahwah, NJ 07430, USA Phone: (201) 721-7562					
<u>EUROPE OFFICE</u> Sripath Innovations Ltd. 21 Ledbury Place Croydon, CR0-1ET United Kingdom +44 20 8688-9645 info@sripathinnovations.com		<u>ASIA OFFICE</u> Bitpath Pvt. Ltd. D-411, Dheeraj Uphar, Film City Rd. Behind Dindoshi Bus Depot Malad (E), Mumbai 400-097, India +91 98211-33845		<u>AUSTRALIA OFFICE</u> Sripath Asia Pac Pty. Ltd. Auz Country Carriers Warehouse F3/155 Abbots Road Dandenong South, VIC 3175 Australia +61 800-191-799	
<b>Chemwatch Emergency Response International</b> <span style="float: right;"><b>+1 855 237 5573</b></span> <b>See Section 16 for Local Emergency Response Telephone Numbers</b>					
Product Identifier		ReNUBIT® E44			
Synonyms:					
Chemical Family:		Petroleum blend			
Recommended Use:		An additive for use in blending with asphalt			
2. Hazards Identification					
<b>Classification of the Substance:</b> STOT SE, Cat. 3					
<b>Pictogram:</b> 		<b>Signal Word:</b> WARNING			
		WARNING			
<b>Hazard Statement(s):</b> H335 - May cause respiratory irritation H336 – May cause drowsiness or dizziness					
<b>Precautionary Statement(s):</b>					
<b>Prevention:</b>		P261: Avoid breathing dust/fumes/gas/mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area.			
<b>Response:</b>		P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P319: Get medical help if you feel unwell.			
<b>Storage:</b>		P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up.			
<b>Disposal:</b>		P501: Dispose of contents / container in accordance with local / national / international regulations			
<b>Hazards Not Otherwise Classified:</b>					
<b>EMERGENCY OVERVIEW:</b>		May cause slight skin or eye irritation. Heated material may cause burns. Molten asphalt presents a thermal hazard.			
<b>Potential Health Effects:</b>					
Skin Contact:		May cause slight skin irritation			
Eye Contact:		May cause slight eye irritation			
Inhalation:		Inhalation of vapor may cause slight irritation to the mucous membranes and upper respiratory tract			
Ingestion:		May cause gastrointestinal (digestive) tract irritation.			
HMIS Ratings (Scale of 1 to 4)		Health: 1	Fire: 1	Reactivity: 0	Special: N/A
NFPA Ratings (Scale of 1 to 4)		Health: 1	Fire: 1	Reactivity: 0	Other: N/A

3. Composition/Information on Ingredients			
Ingredient Name	CAS Number:	EC Number	Weight %
Asphalt / Bitumen	8052-42-4	232-490-9	85 – 95
Branched Petroleum Saturates	8002-74-2	232-315-6	2 – 10
Hindered Phenolic Compounds	6683-19-8	229-722-6	1 - 5
Hydrogen Sulfide - Concentration dissolved in asphalt is <0.1%, but may give rise to vapor concentrations in storage tanks in excess of the OSHA PEL or ACGIH TLV Limits.	7783-06-4	231-977-3	< 0.1

4. First Aid Measures	
Skin Contact:	Remove contaminated clothing, jewelry and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Cover the irritated skin with an emollient. In case of burns from hot material, cover area with sterile, dry dressing. Bandage securely, but not too tightly. Get medical attention immediately.
Eye Contact:	Wash eyes immediately with large amounts of water or normal saline solution, lifting upper and lower lids until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention immediately.
Inhalation:	Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. If breathing is difficult, give oxygen. Treat symptomatically and supportively. Get medical attention immediately.
Ingestion:	If swallowed DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Get medical attention immediately.
Indication of Immediate medical attention and special treatment. Notes to Physician:	N/A
Acute Symptoms / Effects	Cooled product may irritate the respiratory tract (nose, throat, and lungs), eyes, and skin. For hot product: Fatal if inhaled, thermal burns
Delayed Symptoms / Effects	No information on significant adverse effects

5. Fire Fighting Measures	
Flash Point: (C.O.C.)	>218 °C (>425 °F)
NFPA Classification:	Combustible liquid Class IIIA
Suitable Extinguishing Media:	Dry chemical, carbon dioxide, and regular foam. Do not use water on material hotter than 200 °F as an explosion may occur.
Unsuitable Extinguishing Media:	Avoid use of water
Fire Fighting Instructions:	Dense smoke may be generated while burning. Move container from fire area if you can do it without risk. Avoid breathing corrosive vapors; keep upwind.
<b>Specific Hazards:</b>	
Fire and Explosion Hazard:	Emits dense smoke and toxic fumes under fire conditions. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.
Products of Combustion:	Thermal decomposition products may include toxic fumes such as carbon monoxide, carbon dioxide, hydrogen sulfide, nitrogen oxides.

6. Accidental Release Measures	
Emergency Procedures: Personal Evacuation and Safety	Ensure adequate ventilation. Exclude sources of ignition and ventilate the area. Avoid contact with skin, eyes, and clothing. High risk of slipping due to leakage/spillage of product. Avoid breathing vapors. Wear personal protective clothing equipment.
Clean-up and Containment: Small Spill:	Contain spill immediately. Do not allow spill to enter sewers or watercourses. Absorb with an inert material (paper towels, spill control pillows, absorbent particulate) and put the spilled material in an appropriate waste disposal.
Clean-up and Containment: Large Spill:	Contain spill immediately. Do not allow spill to enter sewers or watercourses. Absorb with an inert material (sand, clay, spill control pillows, absorbent particulate) and put the spilled material in an appropriate waste disposal. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or suitable containers
Disposal:	State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
Personal Protective Equipment (PPE):	
Eyes:	Employee must wear chemical splash goggles or a face shield.
Hands and Feet:	Employee must wear appropriate protective gloves, such as neoprene or butyl gloves or gauntlets and oil and acid resistant safety boots.
Body:	Employee must wear appropriate protective (oil and acid resistant) clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing. Launder soiled clothes. Properly dispose of contaminated leather articles, including shoes, which cannot be decontaminated.
Respiratory:	Approved respirator equipped with a canister approved for dust/mist/organic vapors/acids is recommended. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.
7. Handling and Storage	
Safe Handling:	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas/fumes/vapor spray. Handle in accordance with good hygiene and safety procedures. Avoid inhalation, contact with eyes, skin or clothing.
Safe Storage:	Keep in a tightly closed container, stored in a cool, dry, ventilated area.
Incompatibilities:	Oxidizing agents
8. Exposure Controls/Personal Protection	
Exposure Parameters:	Hydrogen Sulfide OSHA-PEL: FINAL 20 ppm ceiling / Vacated 10 ppm TWA; 14 mg/m <sup>3</sup> TWA, 15ppm STEL; 21 mg/m <sup>3</sup> STEL. Hydrogen Sulfide ACGIH-TLV: 1ppm TWA, 5ppm STEL
Engineering Controls:	Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of vapors below their respective exposure or flammable limits.
Protection Measures:	Ensure that eyewash stations and safety showers are proximal to the work-station location.
9. Physical and Chemical Properties	
Appearance Description	Black, viscous, liquid at room temperature
Odor:	Slight burnt tar-like petroleum odor
Odor Threshold:	Not known
API Gravity:	14.0-20.0

Initial Boiling Point and Boiling Range:	>246 °C (>475 °F)
Melting Point:	N/A
Specific Gravity (H <sub>2</sub> O=1):	0.95-0.97 (Water = 1)
pH (1%soln/water)	N/A
Evaporation Rate:	Not known
Water Solubility:	Insoluble in cold water
Vapor Density (air = 1)	N/A
Vapor Pressure:	<0.2 mm Hg @ 80 °C (175 °F)
Density:	0.99 at 20 C
Solubility:	Not known
Partition Coefficient:	Not known
Pour Point:	4.4 °C (40 °F)
Freezing Point:	Not known
Flash Point:	>218 °C (>425 °F) C.O.C
Lower/Upper Flame Limits:	Lower – 1%, Upper – 5.5%
Auto-ignition Temperature:	338 °C (640 °F)
Decomposition Temperature:	Not known
Viscosity:	50 to 100 cP @ 135 °C (275 °F)

**10. Stability and Reactivity**

Stability and Reactivity:	The product is stable. Keep away from strong oxidizing and reducing agents.		
Possibility of Hazardous Reactions:	None		
Conditions to Avoid:	Heat, open flames, oxidizing materials and mist		
Incompatibilities:	Avoid open flames. Reactive with oxidizing agents.		
Hazardous Polymerization:	Will not occur		
Hazardous Decomposition Products:	Products of decomposition may include carbon monoxide, carbon dioxide, hydrogen sulfide, nitrogen oxides		

**11. Toxicological Information**

Toxicity Data:	Slightly hazardous in case of skin contact (irritant), or ingestion, or inhalation. No information on adverse reproductive effects on humans found.		
Acute Health Effects:	Skin: May cause skin irritation. Eyes: May cause transient irritation. Inhalation: Low hazard for usual industrial handling. Ingestion: May cause gastrointestinal (digestive) tract irritation.		
Carcinogen status	OSHA – No	NTP – Not a carcinogen	IARC - Not a carcinogen

**12. Ecological Information**

Ecotoxicity:	No data available
Persistence and Degradability:	No data available
Bio-accumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effects:	No data available

**13. Disposal Information**

Do not dispose into the immediate environment. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Waste must be disposed of in accordance with

federal, state and local environmental control regulations. EPA Waste Code – Product if discarded is not expected to be a characteristic hazardous waste.

#### 14. Department of Transportation (DOT) Transport Information

Shipping Name:	ReNUBIT® E44
UN Number:	n/a
UN proper shipping name:	Not regulated
Hazard Class or Division:	n/a
DOT Classification:	Not a DOT controlled material (United States).
Packing Group:	n/a
<b>Environmental hazard(s):</b>	
Labeling Requirements:	Not Regulated
<b>Packing Authorizations:</b>	
Exceptions:	Not Regulated
<b>Non-Bulk Packing:</b>	
Bulk Packing:	Not Regulated
<b>Quantity Limitations:</b>	
Passenger Aircraft:	Not Regulated
Cargo Aircraft Only:	Not Regulated

#### 15. Regulatory Information

OSHA Process Safety:	Not listed
SARA Section 313:	Hydrogen Sulfide 1.0% de minimis concentration
SARA Section 302/304:	Hydrogen Sulfide 227 Kg (500 lb.) TPO
TSCA Status:	All components listed
CERCLA:	Hydrogen Sulfide 45.5 Kg (100 lb.) final RQ
ENECS Status:	This product is on the European Inventory of Existing Commercial Chemical Substances.
Clean Air Act:	Not Regulated
Safe Drinking Water Act:	Not Regulated
California Proposition 65:	Listed for Hydrogen Sulfide (CAS 7783-06-4), Benz(a)anthracene (CAS 56-55-3), Benzo(a)pyrene (CAS 50-32-8), Benzo(b)fluoranthene (CAS 205-99-2), Benzo(k)fluoranthene (CAS 207-08-9), Chrysene (CAS 218-01-9), Dibenz(a, h)anthracene (CAS 53-70-3), Indeno(1,2,3-cd)pyrene (CAS 193-39-5), Lead (CAS 7439-92-1), Nickel (CAS 7440-02-0)
WHMIS Classification	Not controlled under WHMIS (Canada). Hot Product, Class B2
DSCL (EEC):	This product is not classified according to the EU regulations. S24/25- Avoid contact with skin and eyes.
Federal and State Regulations:	Not regulated TSCA Listed - non-hazardous

#### 16: Other Information

##### Chemwatch Emergency Response International

**+1 855 237 5573**

##### Local Emergency Telephone Numbers:

Argentina: +54 11 6842 1116

Australia: +61 2 9186 1132

Austria: +43 800 281336

Belgium: +32 2 700 63 06

Brazil: +55 21 2018 1004

Bulgaria: +359 2 906 6310

Canada: +1 867 6702867

Chile: +56 42 2457 999

China: +86 769 8886 4656

Columbia: +57 6015143104

Denmark: +45 78 76 84 61

Estonia: +372 8840469

Finland: +358 75 3252482

France: +33 4 26 69 99 66

Germany: +49 32 211 121 704

Hungary: +36 1 779 9162	India: +91 800 0403 230	Ireland: +353 1 443 4289
Italy: +39 800 177 870	Japan: +81 50-3204-4966	Lithuania: +370 5 214 3027
Malaysia: +60 16 699 9010	Morocco: +1 424 364 1128	Netherlands: +31 70 262 0282
New Zealand: +64 800 700 112	Mexico: +52 55 4440c1956	Norway: +47 23 25 25 84
Poland: +48 22 208 6439	Portugal: +351 308 807 018	Russia: +7 499 505 15 59
Singapore: +65 3138 1227	Slovenia: +386 828 80514	South Africa: +27 21 813 6854
South Korea: +82 003084910204	Spain: +34 965 02 04 58	Sweden: +46 8 446 824 11
Switzerland: +41 44 551 4362	Taiwan: +886 2 2656 5404	Turkey: +90 800 621 2394
UK: +44 20 3901 3542	Uruguay: +598 000 413 598 5409	USA: +1 855 237 5573

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