


| 1. Product and Company Identification   |  |  |                        |
|---|--|--|------------------------|
| <u>GROUP HEADOFFICE</u><br>Sripath Technologies®, LLC<br>115 Franklin Turnpike, #250,<br>Mahwah, NJ 07430, USA<br>Phone: (201) 721-7562                       |  |  |                        |
| <u>EUROPE OFFICE</u><br>Sripath Innovations Ltd.<br>21 Ledbury Place<br>Croydon, CR0-1ET<br>United Kingdom<br>+44 20 8688-9645<br>info@sripathinnovations.com | <u>ASIA OFFICE</u><br>Bitpath Pvt. Ltd.<br>D-411, Dheeraj Uphar, Film City Rd.<br>Behind Dindoshi Bus Depot<br>Malad (E), Mumbai 400-097, India<br>+91 98211-33845 | <u>AUSTRALIA OFFICE</u><br>Sripath Asia Pac Pty. Ltd.<br>Auz Country Carriers Warehouse<br>F3/155 Abbots Road<br>Dandenong South, VIC 3175<br>Australia<br>+61 800-191-799 |                        |
| <b>Chemwatch Emergency Response International</b><br><b>See Section 16 for Local Emergency Response Telephone Numbers</b>                                     |  |  | <b>+1 855 237 5573</b> |
| Product Identifier  | ReNUBIT®   |  |                        |
| Synonyms:   | ReGENR8™   |  |                        |
| Chemical Family:  | Heavy petroleum blend  |  |                        |
| Recommended Use:  | An additive for use in blending with asphalt   |  |                        |

| 2. Hazards Identification  |   |                             |               |              |
|--|---|-----------------------------|---------------|--------------|
| <b>Classification of the Substance:</b><br>STOT SE, Cat. 3   |   |                             |               |              |
| <b>Pictogram:</b><br>           |   | <b>Signal Word:</b> WARNING |               |              |
|  |   | WARNING                     |               |              |
| <b>Hazard Statement(s):</b><br>H335 - May cause respiratory irritation<br>H336 – May cause drowsiness or dizziness |   |                             |               |              |
| <b>Precautionary Statement(s):</b>   |   |                             |               |              |
| <b>Prevention:</b>   | P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.<br>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.<br>P319: Get medical help if you feel unwell. |                             |               |              |
| <b>Storage:</b>  | P403+P233: Store in a well-ventilated place. Keep container tightly closed.<br>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.<br>Molten asphalt presents a thermal hazard.              |                             |               |              |
| <b>Potential Health Effects:</b>   |   |                             |               |              |
| <b>Skin Contact:</b>   | May cause slight skin irritation  |                             |               |              |
| <b>Eye Contact:</b>  | May cause slight eye irritation   |                             |               |              |
| <b>Inhalation:</b>   | Inhalation of vapor may cause slight irritation to the mucous membranes and upper respiratory tract                                 |                             |               |              |
| <b>Ingestion:</b>  | May cause gastrointestinal (digestive) tract irritation.  |                             |               |              |
| <b>HMIS Ratings (Scale of 1 to 4)</b>  | Health: 1   | Fire: 1                     | Reactivity: 0 | Special: N/A |
| <b>NFPA Ratings (Scale of 1 to 4)</b>  | 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 | 20 – 65  |
| Branched Petroleum Saturates  | 8002-74-2   | 232-315-6 | 2 – 15   |
| Lubricating Oils  | 129893-17-0 | --        | 20 - 65  |
| Hindered Phenolic Compounds   | 6683-19-8   | 229-722-6 | 5 - 10   |
| 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.<br>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, semi-solid 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)    |
| Relative Density:                        | Not known                      |
| 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.<br>Eyes: May cause transient irritation.<br>Inhalation: Low hazard for usual industrial handling.<br>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™ / ReGENR8™                            |
| UN Number:                      | UN3257   |
| UN proper shipping name:        | Elevated Temperature Liquid n. o. s.           |
| Hazard Class or Division:       | 9  |
| DOT Classification:             | Not a DOT controlled material (United States). |
| Packing Group:                  | III  |
| <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.                     |
| California Proposition 65:     | Not listed  |
| 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<br>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: +61 2 9186 1132 | 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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