

1. Product and Company Identification			
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<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 Abbotts Road Dandenong South, VIC 3175 Australia +61 800-191-799	
Chemwatch Emergency Response International See Section 16 for Local Emergency Response Telephone Numbers			+1 855 237 5573
Product Identifier	ReLIXER®		
Synonyms:	ReLIXER®, NuMIXER®, ReJUVN8™		
Chemical Family:	Mixture of Bio-Oils		
Recommended Use:	An additive for use in blending with bitumen or asphalt		

2. Hazards Identification					
Classification of the Substance: Based on available data this substance / mixture does not meet the classification criteria.					
Pictogram: No Hazard Pictogram required.		Signal Word: No Signal Word required.			
Hazard Statement(s): Not classified as a Physical, Health, or Environmental Hazard under GHS criteria.					
Precautionary Statement(s): No Precautionary Statements as required under GHS criteria.					
Hazards Not Otherwise Classified:					
EMERGENCY OVERVIEW:		May be slight irritant on contact with skin, eyes, or on ingestion			
Potential Health Effects:					
Skin Contact:		Slightly hazardous in case of skin contact (irritant).			
Eye Contact:		Slightly hazardous in case of eye contact (irritant).			
Inhalation:		Slightly hazardous in case of inhalation (irritant).			
Ingestion:		Slightly hazardous in case of ingestion (irritant).			
HMIS Ratings (Scale of 1 to 4)		Health: 1	Fire: 1	Reactivity: 0	Special: N/A
NFPA Ratings (Scale of 1 to 4)		Health: 0	Fire: 1	Reactivity: 1	Other: N/A

3. Composition/Information on Ingredients				
Ingredient Name	CAS Number	EC Number	Weight %	
Corn Oil	8001-30-7	232-281-2	>50	
Tall Oil	61790-12-3	263-107-3	5 – 25	
Sunflower Oil	8001-21-6	232-273-9	5 – 20	
Soybean Oil	8001-22-7	232-274-4	5 – 20	
Rapeseed Oil	8002-13-9	232-299-0	5 – 20	
Vegetable Oil	68956-68-3	273-313-5	5 – 10	

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:	Check for and remove any contact lenses. Wash eyes immediately with large amounts of water or normal saline solution, occasionally 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. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Notes to Physician:	N/A
Acute / Delayed Symptoms & Effects	N/A
Indication of Immediate medical attention & special treatment	N/A

5. Fire Fighting Measures	
Flash Point: (Closed cup)	>204 °C (400 °F)
Suitable Extinguishing Media:	Dry chemical, carbon dioxide, and regular foam. For larger fires, use regular foam
Unsuitable Extinguishing Media:	Avoid use of water
Fire Fighting Instructions:	Move container from fire area if you can do it without risk. Avoid breathing corrosive vapors; keep upwind.
Specific Hazards:	
Fire and Explosion Hazard:	Emits acrid smoke and toxic fumes under fire conditions. Contact with strong oxidizers may cause fire and/or explosion.
Products of Combustion:	Thermal decomposition products may include toxic fumes including carbon monoxide and carbon dioxide. Emits acrid smoke and fumes.

6. Accidental Release Measures	
Emergency Procedures: Small Spill:	Absorb with an inert material (paper towels, spill control pillows, absorbent particulate) and put the spilled material in an appropriate waste disposal.
Large Spill:	Absorb with an inert material (paper towels, spill control pillows, absorbent particulate) and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
Methods and Materials for Containment, Clean-up and Disposal:	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. 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
Respiratory:	Approved respirator equipped with a canister approved for dust/mist/organic vapors/acids is recommended

7. Handling and Storage

Safe Handling:	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk; evaporate the residue under a fume hood. 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	OSHA-PEL: 15 mg/m ³ ; ACGIH-TLV: 10 mg/m ³
Engineering Controls:	Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Protection Measures:	Ensure that eyewash stations and safety showers are proximal to the work-station location.

9. Physical and Chemical Properties

Appearance Description	Liquid
Odor:	Slight
Odor Threshold:	Not known
Initial Boiling Point and Boiling Range:	Not known
Melting Point:	-14 °C (6.8 °F)
Specific Gravity (H ₂ O=1):	0.918 (Water = 1)
pH (1%soln/water)	Not known
Evaporation Rate:	Not known
Water Solubility:	Insoluble in cold water
Vapor Density (air = 1)	Not known
Vapor Pressure:	Not known
Relative Density:	Not known
Solubility:	Not known
Partition Coefficient:	Not known
Freezing Point:	Not known
Flash Point:	> 204 °C (400 °F) (closed cup)
Lower/upper Flame Limits	Not known
Auto-ignition Temperature:	Not known
Decomposition Temperature:	Not known
Viscosity:	50 to 100 cP at 24 °C (75 °F)

10. Stability and Reactivity

Stability and Reactivity:	The product is stable.
Possibility of Hazardous Reactions:	None
Conditions to Avoid:	None

Incompatible Materials:	Reactive with oxidizing agents.
Hazardous Decomposition:	Thermal decomposition leads to formation of Acrolein

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. Bio-Oil is used as a vehicle in many toxicology studies and is thereby assumed not to exert important effects in its own right. In fact, the majority of reproductive and developmental toxicology studies using Bio-Oil controls do not note adverse effects; however, there have been only a few studies that directly assess this issue, as follows: Adverse reproductive effects (biochemical and metabolic effects and developmental abnormalities on new born) were found in pregnant rats were fed extremely high amounts of certain Bio-Oils (36,000 mg/kg and 12,500 mg/kg). Acute Potential Health Effects: Skin: May cause skin irritation. Low hazard for usual industrial handling. Eyes: May cause transient irritation. Inhalation: Low hazard for usual industrial handling. Ingestion: Ingestion of large amount may cause gastrointestinal (digestive) tract irritation. Expected to be a low ingestion hazard. Chronic Potential Health Effects: Repeated or prolonged contact may cause allergic reactions in sensitive individuals.		
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.
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14. Department of Transportation (DOT) Transport Information

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

15. Regulatory Information	
OSHA Process Safety:	Not listed
SARA Title III:	Not listed
TSCA Status:	All components listed
CERCLA:	Not listed
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)
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
REACH:	No registration number is given for this substance since it is exempted from registration requirements according to REACH Title II and also exempted from Titles V and VI as it is a recovered substance and fulfils the criteria of Article 2(7)(d) of REACH.

16: Other Information

Chemwatch Emergency Response International

+1 855 237 5573

Chemwatch 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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