

## Section 1. Identification

**Product name** : ReGenX<sup>™</sup>

**Synonyms** : Emulsified Asphalt; Cationic Asphalt Emulsion

**Relevant identified uses of the substance or mixture and uses advised against**

**Product use** : Road paving

**Manufacturer** : Blacklidge Emulsions, Inc.  
12251 Bernard Parkway, Suite 200  
Gulfport, MS 39503  
(228) 863-3878

**Emergency telephone number** : CHEMTREC – (800) 424-9300

## Section 2. Hazards Identification


**OSHA/HCS Status** : This product has not been tested by Blacklidge Emulsions, Inc. to determine its specific health hazards. Therefore, the information provided in this section includes health hazard information on the product components.

**Classification** :

Toxic to Reproduction	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

### GHS Label Elements

**Hazard pictograms** :



**Signal Word** : Warning

**Hazard Statements** : No known significant effects or critical hazards.

**Hazards Not Otherwise Classified (HNOC)** : None.

### Precautionary Statements

**Prevention** :

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe vapor.
- Do not eat, drink or smoke when using this product.
- Wash hands and any possibly exposed skin thoroughly after handling.

**Response** : IF exposed or concerned: Get medical advice and/or attention.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all applicable federal, state and local waste disposal regulations.

**Section 3. Composition/Information on Ingredients**

Substance/Mixture : Mixture

Composition Information :

Name	CAS No.	Concentration %
Biosynthetic Oil – Petroleum Mixture	Proprietary	15 – 70
Water	7732 – 18 – 5	30 – 85
Emulsifiers	Mixture	< 2

\*Values do not reflect absolute minimums and maximums; these values are typical which may vary from time to time.

Based on our knowledge of our products, there are no additional ingredients present that are classified as hazardous to health or to the environment, which require reporting in this section. As applicable, see Section 8 for Occupational Exposure Limits.

**Section 4. First Aid Measures**

**Description of Necessary First Aid Measures**

**Eye Contact** : Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Remove contact lenses. If eye irritation persists, obtain medical treatment. For contact with heated product, flush immediately with cool water for at least 15 minutes. Get medical attention.

**Skin Contact** : Wash with soap and water. Rinse thoroughly. For contact with heated product, flush immediately with plenty of cool water for at least 15 minutes. Get medical attention if irritation, discomfort or vomiting develops or persists.

Place contaminated clothing in closed container for storage until laundered or discarded. If clothing is to be laundered, inform person performing operation of contaminant’s hazardous properties.

**Inhalation** : Remove to fresh air. Apply artificial respiration if not breathing. GET IMMEDIATE MEDICAL ATTENTION if victim is unconscious. Seek medical attention if cough or symptoms develop.

**Ingestion** : If victim is conscious, give liquids. Do not induce vomiting. If spontaneous vomiting occurs, hold the victim’s head lower than their hips to prevent aspiration. If large amounts are swallowed, contact a physician or Poison Control Center. GET MEDICAL ATTENTION IMMEDIATELY.

**Potential Acute Health Effects**

**Eyes** : Slightly irritating. May cause tearing, burning sensation and redness. Contact with product at elevated temperatures may result in thermal burns.

**Skin** : May cause skin dryness, irritation and defatting of the skin. Contact with heated material may cause thermal burns.

**Inhalation** : Breathing of the mists, vapors or fumes may irritate eyes, nose, throat, upper respiratory tract and lungs.

**Ingestion** : Gastrointestinal tract irritation with possible nausea, vomiting and diarrhea. See Toxicological Information (Section 11).

**Indication of immediate medical attention and special treatment needed, if necessary**

**Note to Physician** : Treat symptomatically. Contact physician or Poison Control Center immediately if large quantities have been ingested or inhaled.

**Section 5. Fire-fighting Measures****Extinguishing Media**

**Suitable Extinguishing Media** : Water spray (fog), regular foam, dry chemical, or carbon dioxide

**Unsuitable Extinguishing Media** : Do not direct solid streams into the hot burning liquid.

**Specific Hazards arising from The Chemical** : Use water spray or fog to cool exposed containers. Closed containers of this material may explode when subjected to heat from the surrounding fire.

**Hazardous Thermal Decomposition Products** : Decomposition products may include the following materials: Carbon Dioxide, Carbon monoxide and other asphyxiants.

**Special Protective Equipment and Precautions for Fire Fighters** : Evacuate area and fight fire from a safe distance. Exercise caution when fighting any chemical fire.  
Use water spray to cool adjacent structures, exposed containers and to protect Firefighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

**Section 6. Accidental Release Measures****Personal Precautions, Protective Equipment and Emergency Procedures**

**Emergency Procedures** : Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unnecessary people away. Ensure adequate ventilation. Eliminate or shut off ignition sources and keep ignition sources out of the area. Protect from heat.  
(See Exposure Control/Personal Protection – Section 8).

**Environmental Precautions** : If product is released to the environment, take immediate steps to stop and contain release. Caution should be exercised regarding personnel safety and exposure to the released product. Notify local authorities and the National Response Center, if required.

**Methods and Materials for Containment** : Contain liquid with sand or soil. DO NOT use combustible materials such as sawdust.

**Methods and Materials for Containment and Cleaning Up**

**Spill or Leak Procedure** : Keep unnecessary people away. Approach release from upwind. Contain liquid with sand or soil. DO NOT use Combustible materials such as sawdust. Use appropriate protective equipment as stated in Section 8. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required Absorb spill with inert material (e.g. sand or soil), then place in a chemical waste container. Vacuum or

sweep up material and place in a disposal container. Dispose of via a licensed waste disposal contractor. See Exposure Controls/Personal Protection (Section 8).

**Section 7. Handling and Storage**

- Safe Handling Precautions** : Do not eat, drink or smoke in areas of use or storage. Always wash hands after Handling the product. Use only in well ventilated areas. Wear appropriate personal protective equipment. Do not breathe vapor or mist. Do not ingest.
- Storage Conditions** : Store in tightly closed containers in a cool, dry, isolated, well-ventilated area away from heat, sources of ignition and incompatibles. Store away from oxidizing agents. Empty containers may contain product residue. Do not reuse without adequate precautions.

**Section 8. Exposure Controls/Personal Protection**

Name	Exposure Limits / Health Hazards
Oil mist, mineral	<p><b>OSHA PEL</b>                      TWA: 5mg/m<sup>3</sup>                      ACGIH TLV TWA: 5mg/m<sup>3</sup> Form: Inhalable fraction  <b>NIOSH REL (United States, 1/2013)</b>                      TWA: 5mg/m<sup>3</sup> 10 hours Form: Mist                      STEL: 10mg/m<sup>3</sup> 15 minutes Form: Mist</p>
Polycyclic Aromatic Hydrocarbons	<p><b>OSHA PEL (United States, 6,1993)</b>                      TWA: 0.2 mg/m<sup>3</sup> Form: Benzene-soluble  <b>ACGIH TLV (United States, 3,2004)</b>                      TWA: 0.2mg/m<sup>3</sup> Form: Benzene-soluble</p>

- Appropriate Engineering Controls** : Ventilation and other forms of engineering controls are the preferred means for controlling exposures. Local exhaust ventilation may be necessary when handling or using this product to keep exposure to airborne contaminants below the exposure limit.

**Personal Protective Equipment**

- Eye Protection** : Remove contact lenses and wear chemical safety glasses and/or goggles or where contact with product may occur.

- Skin Protection** : Protective gloves are recommended to protect against contact with product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Use appropriate chemical protective gloves when handling at room temperature. Where splashing is possible, fully chemical resistant protective clothing and boots are recommended.

- Respiratory Protection** : Inhalation of mists and vapors should be avoided at all times. Concentration in air determines the level of respiratory equipment. Not required under normal conditions of use. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. A NIOSH/MSHA approved air purifying respirator with an appropriate cartridge,

canister, and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Respiratory protection is not usually needed unless product is heated or misted.

## Section 9. Physical and Chemical Properties

<b>Physical State</b>	: Liquid (Viscous)
<b>Appearance</b>	: Light Brown/Light Orange
<b>Odor</b>	: Slight

<b>Property</b>	<b>Values (Method)</b>
<b>Boiling Point</b>	: 212°F (100°C)
<b>Specific Gravity @ 25°C</b>	: 0.966
<b>Melting Point</b>	: Not available
<b>Flash Point</b>	: Not available
<b>Vapor Pressure</b>	: Not available
<b>Vapor Density</b>	: Not available
<b>Bulk Density</b>	: Not available
<b>Solubility in Water</b>	: Insoluble
<b>Octanol/Water Partition</b>	: Not available
<b>pH Value</b>	: 2.85
<b>Viscosity</b>	: 40 sfs
<b>Evaporation Rate</b>	: Not available
<b>Molecular Weight</b>	: Not available
<b>Chemical Family</b>	: Cationic Asphalt Emulsion
<b>Odor Threshold</b>	: Not available

## Section 10. Stability and Reactivity

<b>Reactivity</b>	: The product is non-reactive under normal conditions of use.
<b>Stability</b>	: No decomposition if used and stored according to specifications.
<b>Hazardous Polymerization</b>	: Will not occur.
<b>Conditions to Avoid</b>	: Excessive heat, sources of ignition and open flame.
<b>Incompatible Materials</b>	: Oxidizing agents, strong acids or bases
<b>Hazardous Decomposition Products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition products may include the following materials: Carbon dioxide, Carbon monoxide and other asphyxiants.

## Section 11. Toxicological Information

<b>Inhalation</b>	: Vapors and/or mists which may be formed at elevated temperatures may be irritating to eyes, nose, throat, upper respiratory tract and lungs.
<b>Eyes</b>	: Slightly irritating to the eyes. May cause tearing, burning sensation and redness. Contact with product at elevated temperatures may result in thermal burns.
<b>Skin</b>	: May cause skin dryness, irritation and defatting of the skin. Contact with product at

elevated temperatures may result in thermal burns.

**Ingestion** : Gastrointestinal tract irritation with possible nausea, vomiting and diarrhea.

#### Toxicological Data

**Acute Toxicity** : Not classified as acutely toxic.

**Extracts (petroleum)** : Acute Oral Toxicity: Rat, LD50>5000 mg/kg body weight  
Acute Dermal Toxicity: Rabbit, LD50>2000 mg/kg body weight  
Acute Inhalation Toxicity: Rat, 4 hr, LC50>5 mg/L

**Skin Corrosion/Irritation** : Mild irritant. May cause skin dryness or cracking. Heated material can cause thermal burns.

**Eye Irritation** : May cause slight transient irritation. Heated material can cause thermal burns.

**Skin Sensitization** : No evidence of skin sensitization.

**Reproductive Toxicity** : Not considered to be toxic to the reproductive system.

**Teratogenicity** : No teratogenic effects observed.

**Specific Target Organ Toxicity (single exposure)** : Acute exposure studies show no evidence of systemic toxicity.

**Specific Target Organ Toxicity (repeated exposure)** : Target organs: Potential dermal effects

**Carcinogenicity** : Limited evidence of carcinogenic effect (dermal); Modified Ames Assay (MI): <0.4

## Section 12. Ecological Information

**Ecotoxicity effects** : Toxic to aquatic organisms, with long lasting effects.

**Persistence and degradability** : Not readily biodegradable. Considered to be inherently biodegradable.

**Bioaccumulative Potential** : Constituents of RAEs show measured or predicted values for log Kow  $\geq 4$  and are considered potentially bioaccumulative.

**Mobility in Soil** : Not available.

**Other Adverse Effects** : No known significant effects or critical hazards.

## Section 13. Disposal Considerations

**Disposal Methods** : Follow federal, state and local regulations. This material is not a RCRA hazardous Waste, if not contaminated. If material has been “used”, RCRA criteria (ignitability, reactivity, corrosivity and toxicity) must be determined.

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal, state and local regulations regarding proper disposal of waste material that may incorporate some amount of this product.

**Section 14. Transport Information**

**DOT (49 CFR 172.101)**

**Transport Information** : 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 spill.

**UN Proper Shipping Name** : None  
**UN/Identification Number** : Not Regulated  
**Transport Hazard Class(es)** : None  
**Packing Group** : None

**TDG (Canada)**

**UN Proper Shipping Name** : None  
**UN/Identification Number** : Not Regulated  
**Transport Hazard Class(es)** : None  
**Packing Group** : None

**Section 15. Regulatory Information**

**US Federal Regulatory Information**

**United States Inventory (TSCA 8b)** : The product and/or its components are listed, or excluded from, listing, on the US Toxic Substance Control Act

**State Regulations** : Massachusetts Listed as 8012-95-1 (Oil Mist, Mineral).  
 Minnesota Listed as 8012-95-1 (Oil Mist, Mineral). MN cancer designation.  
 New Jersey Listed as Mineral Oil (untreated or mildly treated).  
 Pennsylvania Listed as Mineral Oil Mist.  
 California Proposition 65 This material does not contain any chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

**EPA Superfund Amendment & Reauthorization Act (SARA)**

**Section 302 EPCRA Extremely Hazardous Substances (EHS)**

This product does not contain any chemicals listed under Section 302.

**Section 304 CERCLA Hazardous Substances**

Not regulated.

**Section 311/312 Hazard Categorization**

Acute	Chronic	Fire	Pressure	Reactive
X	X			

**Section 313 EPCRA Toxic Substances**

This product does not contain any chemicals in excess of the applicable *de minimis* concentration that are subject to the reporting requirements of Section 313.

**NFPA Title Ratings**

Health	Flammability	Reactivity	Special Hazards
1	1	0	0

**HMIS Ratings**

Health	Flammability	Reactivity
1	1	0

**Section 16. Other Information**

Revision Date : August 23, 2016

**Disclaimer**

The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, this SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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