

#### Section 1. Identification

**Product name** : LD-7™ Anionic Asphalt Emulsion (aka. Lock Down)  
**Synonyms** : Emulsified Asphalt, Anionic 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.

<b>Classification</b> :	Acute toxicity – Inhalation (Dusts/Mists)	Category 4
	Skin corrosion/Irritation	Category 2
	Serious eye damage/Eye irritation	Category 2A
	Carcinogenicity	Category 2
	Specific target organ toxicity (repeated exposure)	Category 2

**GHS Label Elements**

**Hazard pictograms** : 

**Signal Word** : Warning  
**Hazard Statements** : Causes serious eye irritation.  
Causes skin irritation.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.

**Hazards Not Otherwise Classified (HNOC)** : Hot liquid may cause thermal burns.  
May release hydrogen sulfide gas.

**Precautionary Statements**

**Prevention** : Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe vapor.  
Use only outdoors or in a well-ventilated area.  
Wear personal protective equipment as required.

Wear protective gloves.  
 Wear eye or face protection.  
 Wash hands and any possibly exposed skin thoroughly after handling.

- Response** : Get medical attention if you feel unwell.  
 IF exposed or concerned: Get medical attention.  
 IF ON SKIN: Wash with plenty of soap and water.  
 If skin irritation occurs: Get medical attention.  
 Take off contaminated clothing and wash before reuse.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical attention.
- Storage** : Not applicable
- 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** : An emulsion of asphalt cement and water that contains less than 4.0% emulsifying agent.

**Composition Information** :

Name	CAS No.	Weight %
Asphalt	8052 – 42 – 4	30 – 70
Water	7732 – 18 – 5	70 – 30
Emulsifiers	Mixture	<4

**Section 4. First Aid Measures**

Description of Necessary First Aid Measures

- Eye Contact** : Immediately flush thoroughly with water for at least 15 minutes, including under the eyelids. Contact a physician immediately, preferably an ophthalmologist if irritation persists.
- Skin Contact** : Remove contaminated clothing and shoes. Wash affected areas with soap and flush with large amounts of tepid water for 15 to 20 minutes. Get immediate medical attention if irritation persists.
- Inhalation** : Remove to fresh air. Apply artificial respiration if not breathing. Get immediate medical attention.
- 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. Get medical attention.

Potential Acute Health Effects

- Eyes** : Moderately irritating. May cause thermal burns, reddening or tearing.
- Skin** : Moderately irritating. May cause thermal burns, cracking and drying of skin.

- Inhalation** : Product may be irritating to mucous membranes and respiratory tract. May produce unconsciousness or symptoms of intoxication, such as headache, dizziness, nausea, vomiting and loss of coordination.
- Ingestion** : Irritating to mucous membranes and gastrointestinal tract. May cause thermal burns to the mouth and throat, nausea, vomiting and diarrhea.

**Potential Health Effects from Over-exposure**

Prolonged and repeated skin contact may cause irritation and drying from defatting of the skin leading to dermatitis. Evidence from animal studies suggests that asphalt fumes, when left on the skin for long periods of time, may result in local carcinomas. However, there have been no reports of such effects on human skin that can be attributed to asphalt alone.

May aggravate pre-existing dermatitis. Medium setting (MS) emulsions contain middle distillates which have caused skin cancer and kidney damage in laboratory animals.

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

**Specific Treatments** : No specific treatment.

## Section 5. Fire-fighting Measures

**Extinguishing Media**

**Suitable Extinguishing Media** : Dry chemical, foam or carbon dioxide.

**Unsuitable Extinguishing Media** : Do not use straight streams. Water contact can cause violent eruption of hot asphalt.

**Specific Hazards arising from the Chemical** : May foam if heated above 212°F or if mixed with materials in excess of 212°F.

**Special Protective Actions for Fire Fighters** : Cool fire exposed containers with water.

**Special Protective Equipment for Fire Fighters** : Fire fighters should wear self-contained breathing apparatus and full protective clothing.

## Section 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures**

**For Non-Emergency Personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Ventilate area and avoid inhalation of vapors or mist. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For Emergency Responders** : Remove sources of heat or ignition. Use personal protection measures as recommended in Section 8.

**Environmental Precautions** : Clean up spill, but do not flush to sewer or surface water.

**Methods and Materials for Containment** : Contain liquid with sand or soil.

**Methods and Materials for Cleaning Up** : Use suitable absorbent materials such as vermiculite, sand or clay to clean up residual liquids. Recover and return free product to proper containers. Dispose of contents and container in accordance with all applicable federal, state and local waste disposal regulations.

## Section 7. Handling and Storage

**Safe Handling Precautions** : Do not allow product to freeze. Ground and bond all transfer and storage equipment to prevent static and sparks, and equip with self-closing valves, pressure vacuum bungs and flame arrestors. Empty containers may contain residue (liquid/vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death.

Hydrogen sulfide and other relatively low flash point substances may accumulate in the vapor space of warm asphalt tanks and bulk transport compartments. This condition not only poses an additional physical (e.g., vapor flammability) hazard, but a potentially serious health hazard (e.g., the toxicity of hydrogen sulfide) as well. For further information on the safe storage and handling of hot asphalt and related products, see Asphalt Institute Publication IS-180.

**Storage Conditions** : Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Store away from incompatible materials or sources of ignition.

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits*				
Component	PEL	OSHA	ACGIH	Units
		TLV	Other	
Asphalt	N/A	0.5**	5C**	mg/m3
Water	N/A	N/A	--	--
Emulsifiers	N/A	N/A	--	--

Key: \* = 8-Hr. TWA unless otherwise specified.  
 \*\* = As asphalt fume.  
 C = NIOSH Ceiling.  
 N/A = Not Available.

### 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** : Wear impervious gloves, close collars, apron, long sleeves with cuffs buttoned, boots and face shield where contact with skin may occur. Wash with soap and water before eating, drinking or smoking. Launder contaminated clothing before reuse. Discard shoes saturated with asphalt.

**Inhalation** : Use approved respiratory protective equipment for cleaning large spills or entry into large tanks, vessels or other confined spaces or in situations where airborne concentrations may exceed occupational exposure limits.

**Ventilation** : Provide adequate general and local ventilation:  
(1) to maintain airborne chemical concentrations below applicable exposure limits,  
(2) to prevent accumulation of flammable vapors and formation of explosive atmospheres, and  
(3) to prevent formation of oxygen deficient atmospheres, especially in confined spaces.

*Note: This product may release gases or vapors that can displace oxygen in enclosed areas.*

## Section 9. Physical and Chemical Properties

**Physical State** : Liquid  
**Appearance** : Brown  
**Odor** : Slight petroleum odor

<u>Property</u>	<u>Values (Method)</u>
<b>Boiling Point</b>	: 212°F
<b>Melting Point</b>	: Not available
<b>Vapor Pressure</b>	: Not available
<b>Vapor Density</b>	: Not available
<b>Solubility in H<sub>2</sub>O</b>	: Non
<b>pH</b>	: 7 – 13
<b>Specific Gravity</b>	: 1.01 – 1.2
<b>Evaporation Rate</b>	: Not available
<b>% Volatile by Volume @ 77°F</b>	: 0 – 4%
<b>Lower and Upper Explosive (flammable limits)</b>	: Not available

## Section 10. Stability and Reactivity

**Stability** : Stable under normal conditions of use.

**Hazardous Polymerization** : Will not occur.

**Conditions to Avoid/Incompatibilities** : Strong oxidizing agents. Avoid contacting water or other liquid when the temperature of product exceeds the boiling point of these liquids. Do not contaminate with other asphalt materials. Do not exceed 200°F.

**Hazardous Decomposition Products** : Carbon monoxide, carbon dioxide, hydrogen sulfide, hydrocarbons, and aldehydes. Oxides of nitrogen and sulfur may also occur.

## Section 11. Toxicological Information

No data available.

**Section 12. Ecological Information**

No data available.

**Section 13. Disposal Considerations**

**Disposal Methods** : Dispose through a licensed waste disposal company. Follow applicable federal, state and local waste disposal regulations.

**Section 14. Transport Information**

DOT (49 CFR 172.101)

**UN Proper Shipping Name** : Not Regulated  
**UN/Identification Number** : Not applicable  
**Transport Hazard Class(es)** : Not applicable  
**Packing Group** : Not applicable

TDG (Canada)

**UN Proper Shipping Name** : Not Regulated  
**UN/Identification Number** : Not applicable  
**Transport Hazard Class(es)** : Not applicable  
**Packing Group** : Not applicable

**Section 15. Regulatory Information**

US Federal Regulatory Information

**TSCA 8(a) PAIR** : Nonylphenol, ethoxylated  
**United States Inventory (TSCA 8b)** : The product and/or its components are listed or exempted on the TSCA Chemical Inventory.

EPA Superfund Amendment & Reauthorization Act (SARA)

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

Product Component	CAS No.	Weight %	RQ, lb.	TPQ, lb
None				

**Section 304 CERCLA Hazardous Substances**

Product Component	CAS No.	Weight %	RQ, lb.
None			

**Section 311/312 Hazard Categorization**

Acute	Chronic	Fire	Pressure	Reactive
X	X			

**Section 313 EPCRA Toxic Substances**

Product Component	CAS No.	Weight %
None		

Key: RQ = Reportable Quantity  
 TPQ = Threshold Planning Quantity (EHS)

**California Proposition 65 Warning**

Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be found in crude oil and petroleum products. Although it is possible to sufficiently refine a crude oil or its end products to remove the potential for cancer, we are advising that one or more of the listed chemicals may be present in some detectable quantities. Read and follow directions and use care when handling crude oil and petroleum products.

**Section 16. Other Information**

**Revision Date** : October 1, 2015

**Disclaimer**

**This information provided in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of this Company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to the accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use.**

© 2016 Blacklidge Emulsions, Inc. All rights reserved.