

# SAFETY DATA SHEET

This safety data sheet complies with the requirements of: 29CFR1910.1200

Issue Date 12-Jul-2018 Revision Date 20-Dec-2018 Version 3

**Product identifier** 

Product Name Asphalt Emulsion

Other means of identification

Product Code LUCAS 721 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Roof Coating. An economical means of recoating and preserving smooth-surface asphalt

roofs.

**Uses advised against** For exterior use only. Do not use indoors.

Details of the supplier of the safety data sheet

Manufacturer Address R.M. Lucas Company

3211 South Wood Street Chicago, Illnois 60608 (773) 523-4300

Emergency telephone number

Emergency Telephone Call CHEMTREC Day or Night:

Within USA and Canada: 1-800 424-9300

### 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

**Emergency Overview** 

Appearance Viscous Physical state Liquid Odor Low

#### **Precautionary Statements - Disposal**

Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

# Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

· May be harmful in contact with skin

Unknown acute toxicity 51.89% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Substance

#### **Mixture**

This product is a mixture.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Common name Asphalt Emulsion Roof Coating.

Synonyms None.

Chemical nature Aqueous solution.

Chemical Name	CAS No.	Weight-%	Trade Secret
Water	7732-18-5	40 - 50%	*
Asphalt (at Ambient Temperature)	8052-42-4	40 - 50%	*
Bentonite	1302-78-9	0 - 10%	*
Fiber Glass	65997-17-3	0 - 10%	*

# 4. FIRST AID MEASURES

### **Description of first aid measures**

General advice Under conditions of normal use, no hazards are anticipated which require special first aid

measures.

Eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

**Skin contact** Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash

contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a

physician.

**Inhalation** Move to fresh air in case of accidental inhalation of vapors. If continued difficulty with

breathing is experienced, get medical attention immediately.

**Ingestion** Not an expected route of exposure. If swallowed, do not induce vomiting. Get medical

attention immediately.

**Self-protection of the first aider** First aider: Pay attention to self-protection!.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause skin irritation. May cause eye irritation.

Indication of any immediate medical attention and special treatment needed

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO2). Sand. Use foam or water FOG as a last resort.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

No information available.

**Hazardous combustion products**Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes.

### **Explosion data**

Sensitivity to Mechanical Impact Not sensitive. Sensitivity to Static Discharge Not sensitive.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions No action should be taken involving any personal risk or without suitable training. Use

personal protective equipment as required.

Other Information Extremely slippery when spilled.

**Environmental precautions** 

**Environmental precautions** Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages can not be contained. See Section 12 for additional

ecological information.

Methods and material for containment and cleaning up

Methods for containment Contain spillage with non-combustible absorbent material, e.g. sand, earth, diatomaceous

earth, vermiculite.

Methods for cleaning up Pick up the absorbed material (described just above) and transfer to properly labeled

containers for disposal according to local / national regulations (see Section 13).

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 7. HANDLING AND STORAGE

Precautions for safe handling

**Advice on safe handling**Use personal protective equipment as required. Use only outdoors.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep from freezing. Keep containers tightly closed in a cool, dry, well-ventilated place.

Incompatible materials Strong acids. Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Asphalt (at Ambient Temperature)	TWA: 0.5 mg/m³ benzene-soluble	-	Ceiling: 5 mg/m³ fume 15 min
8052-42-4	aerosol fume, inhalable particulate		
	matter		
Bentonite	TWA: 1 mg/m³ respirable	-	-
1302-78-9	particulate matter		
Fiber Glass	TWA: 1 fiber/cm3 respirable fibers:	-	-
65997-17-3	length >5 µm, aspect ratio >=3:1, as		
	determined by the membrane filter		
	method at 400-450X magnification		
	[4-mm objective], using		
	phase-contrast illumination		
	TWA: 5 mg/m³ inhalable particulate		
	matter		

#### Appropriate engineering controls

**Engineering Controls** None under normal outdoor use conditions.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing that is resistant to chemical penetration.

Respiratory protection No protective equipment is needed under normal use conditions.

**General Hygiene Considerations** Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated

clothing before reuse.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid **Appearance** Viscous Low Odor

Color Black Odor threshold Negligible odor.

Remarks • Method **Property** Values

Not applicable pН

N/A / 0 °C N/A / 32 °F Melting point/freezing point Melting Point is not applicable. Freezing points are

shown.

> 100 °C / 212 °F Boiling point / boiling range

Flash point N/A °C / N/A °F Non Flammable

**Evaporation rate** The evaporation rate of the water No data available. Evaporation rate is dependent component of this emulsion product is upon atmospheric conditions.

dependent upon: 1) The temperature

of the water at the air-water surface; 2) The humidity of the air; 3) The area of

the air-water surface; 4) The

temperature of the air. No information

available

Flammability (solid, gas) Non Flammable

Not flammable Flammability Limit in Air

Upper flammability limit: Not applicable Lower flammability limit: Not applicable

Vapor pressure 2.33 (kPa) @ 20 °C

Vapor density 5.3 Where: Air = 1 at 68 degrees F (20 degrees C)

No data available.

**Specific Gravity** 1.06 Water = 1g/ml

Water solubility Dispersible

Solubility in other solvents Soluble in aromatic and aliphatic

solvents.

Partition coefficient No information available

330 °C / 626 °F **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity Dynamic viscosity No information available

Not an explosive **Explosive properties** 

**Oxidizing properties** None

Other Information

Not applicable Softening point

Molecular weight No information available

Less than 50 g/l **VOC Content (%)** 8.6 to 8.9 lb/gal **Density** Not applicable **Bulk density** 

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### 10. STABILITY AND REACTIVITY

Reactivity

Not applicable Not applicable

Chemical stability

Stable.

**Possibility of Hazardous Reactions** 

None under normal use.

**Hazardous polymerization** Hazardous polymerization does not occur.

Conditions to avoid

None known for product as a whole.

Incompatible materials

Strong acids. Strong oxidizing agents.

**Hazardous Decomposition Products** 

Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants.

#### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Product Information Toxicological testing has not been conducted for this product overall. Available toxicological

data for individualing redients are summarized below.

**Inhalation** Avoid breathing vapors or mists.

Eye contact Avoid contact with eyes. Contact with eyes may cause irritation.

**Skin contact** May cause irritation.

**Ingestion** If swallowed, do not induce vomiting. Get medical attention immediately. Not an expected

route of exposure.

\* The IARC Monograph (Vol. 103, 2013, Bitumen and Bitumen Emissions) defines Asphalt

as 'Group 2B, Possible Carcinogen to Humans'. This definition is based on studies of exposure to Asphalt fumes at elevated temperatures. The Monograph states that temperature plays an important role in determining the degree of exposure and also the carcinogenic potential of bitumen emissions. This same Monograph states that Asphalt is non volatile at ambient temperature. There is no data presented in the Monograph to demonstrate that Asphalt at ambient temperature is considered a carcinogen. Since the normal use of this product is at ambient temperature, the Asphalt used in this product is not listed as a carcinogen. No other national or international agency has defined Asphalt as a

carcinogen.

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
7732-18-5			
Asphalt (at Ambient Temperature)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 94.4 mg/m³ (Rat) 4.5 h
8052-42-4			
Bentonite	> 5000 mg/kg (Rat)	-	-
1302-78-9	3 <b>2</b> · ,		

#### Information on toxicological effects

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Can cause skin irritation.
Serious eye damage/eye irritation Irritating to eyes.

**Irritation** Irritating to eyes and skin.

Corrosivity Not classified.

**Sensitization** May cause sensitization of susceptible persons.

**Germ cell mutagenicity**This product does not contain any ingredients that cause germ cell mutagenicity.

Carcinogenicity The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed

any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Fiber Glass	-	Group 3	-	-
65997-17-3				

Legend

Reproductive toxicity

Developmental Toxicity

None known for product as a whole.

None known for product as a whole.

**Teratogenicity** None known.

STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document For exterior use only. Do not use indoors.

**ATEmix (oral)** 9,988.00 **ATEmix (dermal)** 4,341.80

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0.78 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Bentonite	=	19000: 96 h Oncorhynchus mykiss	-
1302-78-9		mg/L LC50 static 8.0 - 19.0: 96 h	
		Salmo gairdneri g/L LC50	

### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Asphalt (at Ambient Temperature)	>6
8052-42-4	

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable local, regional, national and international

laws and regulations.

Contaminated packaging Do not reuse container.

# 14. TRANSPORT INFORMATION

**Note:** This material is not subject to regulation as a hazardous material for shipping

**DOT** Not regulated.

TDG Not regulated.

MEX Not regulated.

ICAO (air) Not regulated.

<u>IATA</u> Not regulated.

**IMDG** Not regulated.

RID Not applicable in the United States. Not regulated.

ADR Not applicable in the United States. Not regulated.

**ADN** Not applicable in the United States. Not regulated.

#### 15. REGULATORY INFORMATION

**International Inventories** 

TSCA All of the components of this product are listed on the US TSCA (Toxic Substances Control

Act) Inventory or are exempt.

**DSL/NDSL** All of the components of this product are listed on the DSL.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

# **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

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### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
Asphalt (at Ambient Temperature) 8052-42-4	Х	X	X

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 1 Flammability 1 Instability 0 Physical and Chemical

Properties -

<u>HMIS</u> Health hazards 1 Flammability 1 Physical hazards 0 Personal protection -

Prepared By Prepared by Adam Dunn

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 Revision Date
 20-Dec-2018

**Revision Note** 

No information available

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information 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, unless specified in the text.

**End of Safety Data Sheet**