

# SAFETY DATA SHEET

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

Issue Date 06-Sep-2023 Revision Date 06-Sep-2023 Version 1

Product identifier

Product Name Flashing Cement

Other means of identification

Product Code LUCAS 774 UN/ID no. 1993 Synonyms SEALANT

Recommended use of the chemical and restrictions on use

**Recommended Use**Used to install, repair or rebuild roof flashings at parapet walls, gravel stops, stacks, vents,

monitors and similar applications. Can be used with fiberglass, polyester fabrics or roll

roofing for permanent repairs.

**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

12400 South Laramie Ave Alsip, Illnois 60803 (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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

#### Label elements

# **Emergency Overview**

#### Danger

#### Hazard statements

May cause genetic defects

May cause cancer

Causes damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

Flammable liquid and vapor

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Appearance Thick mastic Physical state Paste/Gel Odor Solvent (Mineral Spirits)

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed when product is not in use.

Ground/bond container and receiving equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Use explosion-proof electrical/ventilating/lighting/equipment

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

# **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

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

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

- May be harmful if swallowed
- · May be harmful in contact with skin
- Toxic to aquatic life with long lasting effects

Unknown acute toxicity 35% 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 Flashing Cement. Synonyms SEALANT.

Chemical nature Organic solvents and additives.

Chemical Name	CAS No.	Weight-%	Trade Secret

Asphalt (at Ambient Temperature)	8052-42-4	50 - 60%	*
Mineral Spirits (with < 0.1% Benzene)	8052-41-3	20 - 30%	*
Hydrated Aluminum-Magnesium Silicate (Attapulgite)	12174-11-7	10 - 20%	*
Cellulose Fiber	9004-34-6	0 - 10%	*
Aromatic Naptha	64742-95-6	0 - 10%	*
Kaolin	1332-58-7	0 - 10%	*
Alkyl Amine Acetate	28701-67-9	0 - 10%	*
Nonane	111-84-2	0 - 10%	*
Styrene/Butadiene Copolymer	9003-55-8	0 - 10%	*
Quartz	14808-60-7	0 - 10%	*

### 4. FIRST AID MEASURES

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

General advice Contains petroleum distillate. Harmful or fatal if swallowed. Vapor harmful. May affect the

brain or central nervous system causing dizziness, headache, or nausea. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling

contents may be harmful or fatal.

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

Sealed container may rupture/burst when heated or exposed to excessive heat.

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.

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**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.

#### 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 Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

For emergency responders Use personal protection recommended in Section 8.

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

outdoors.

Conditions for safe storage, including any incompatibilities

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

sparks, flame and other sources of ignition.

Incompatible materials Strong acids. Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Exposure Guidellines	•		
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Asphalt (at Ambient Temperature)	TWA: 0.5 mg/m³ benzene-soluble	-	Ceiling: 5 mg/m <sup>3</sup> fume 15 min
8052-42-4	aerosol fume, inhalable particulate		
	matter		
Mineral Spirits (with < 0.1%	TWA: 100 ppm	TWA: 500 ppm	IDLH: 20000 mg/m <sup>3</sup>
Benzene)		TWA: 2900 mg/m <sup>3</sup>	Ceiling: 1800 mg/m <sup>3</sup> 15 min
8052-41-3		(vacated) TWA: 100 ppm	TWA: 350 mg/m <sup>3</sup>
		(vacated) TWA: 525 mg/m <sup>3</sup>	_
Hydrated Aluminum-Magnesium	TWA: 1 mg/m <sup>3</sup> respirable	-	-
Silicate (Attapulgite)	particulate matter		

12174-11-7			
Cellulose Fiber 9004-34-6	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction (vacated) TWA: 5 mg/m³ (vacated) STEL: 10 mg/m³	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust TWA: 1 mg/m³
Kaolin 1332-58-7	TWA: 2 mg/m³ particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
Nonane 111-84-2	TWA: 200 ppm	(vacated) TWA: 200 ppm (vacated) TWA: 1050 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 1050 mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.025 mg/m³ respirable particulate matter	TWA: 50 μg/m³  TWA: 50 μg/m³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m³ respirable dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m ³ TWA respirable fraction	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust

#### **Appropriate engineering controls**

**Engineering Controls**Use natural cross ventilation, local (mechanical) pick-up, and/or general area mechanical

cross ventilation. Ventilation pattern should be designed to prevent accumulation of vapors. Ventilation must be sufficient to maintain vapor concentrations below the TWA limits

outlined above.

#### 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.

exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection

should be worn.

**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 Paste/Gel

AppearanceThick masticOdorSolvent (Mineral Spirits)ColorBlackOdor threshold1-30 PPM. Odor

thresholds vary greatly.
Do not rely on odor
threshold alone to
determine potentially
hazardous substances.

Property Values Remarks • Method

**pH** Not applicable

Melting point/freezing point None / -70 276F None / -94 °F Melting Point is not applicable. Freezing points are

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Boiling point / boiling range > 154 276F / 310 °F

Flash point > 40.5 276F / > 105 °F Setaflash
Evaporation rate 0.1 Butly acetate = 1

Flammability (solid, gas) N/A

Flammability Limit in Air Flammable above 105 degrees F and 40.5 degrees

C.

shown.

Upper flammability limit: 7.0 Lower flammability limit: 1.6

Vapor pressure 0.3 (kPa) @ 20 °C

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

Specific Gravity 1.09 Water = 1g/ml

Water solubility Insoluble

Solubility in other solvents Soluble in aromatic and aliphatic

solvents.

Partition coefficient N/A No data available.

Autoignition temperature 330 276F / 626 °F

Decomposition temperature N/A Kinematic viscosity N/A Dynamic viscosity N/A

**Explosive properties** Vapor accumulation could flash or explode if ignited.

Oxidizing properties None

**Other Information** 

Softening point Not applicable

Molecular weight N/A

VOC Content (%)

Density

Bulk density

Less than 270 g/l.

9.2 to 9.5 lb/gal

Not applicable

### 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** 

Avoid static discharge. Avoid heat, sparks, and open flame.

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.

### **Component Information**

\* 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.

\* No significant exposure to Crystalline Silica (Quartz) is thought to occur during the use of products in which Crystalline Silica (Quartz) is bound to other materials, such as in paints and coatings. As one reference, see California Office of Health Hazard Assessment at: http://www.oehha.org/prop65/CRNR\_notices/safe\_use/sylicasud2.html

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt (at Ambient Temperature) 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	> 94.4 mg/m³ (Rat) 4.5 h
Cellulose Fiber 9004-34-6	> 5 g/kg (Rat)	> 2 g/kg(Rabbit) > 2000 mg/kg(Rabbit)	> 5800 mg/m³ (Rat) 4 h
Aromatic Naptha 64742-95-6	= 8400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 3400 ppm (Rat) 4 h
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Alkyl Amine Acetate 28701-67-9	= 1216 mg/kg ( Rat )	-	-
Nonane 111-84-2	-	-	= 3200 ppm (Rat) 4 h

#### Information on toxicological effects

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

#### 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, respiratory system and skin.

**Corrosivity** Not classified.

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

**Germ cell mutagenicity** Contains a known or suspected mutagen.

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
Chemical Name	ACGIR	IARC	NIP	USHA
Hydrated Aluminum-Magnesium Silicate (Attapulgite) 12174-11-7	-	Group 2B	-	X
Cellulose Fiber 9004-34-6	-	-	Known	-
Styrene/Butadiene Copolymer 9003-55-8	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	X

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#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Group 3 - Not classifiable as a human carcinogen.

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity None known for product as a whole. **Developmental Toxicity** None known for product as a whole.

**Teratogenicity** None known.

STOT - single exposure N/A. STOT - repeated exposure N/A. **Aspiration hazard** N/A.

#### Numerical measures of toxicity - No information available

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

4,875.20 ATEmix (oral) **ATEmix (dermal)** 2,052.40 ATEmix (inhalation-dust/mist) 6.35 5,056.40 ATEmix (inhalation-vapor)

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

14.75% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Aromatic Naptha	-	9.22: 96 h Oncorhynchus mykiss	6.14: 48 h Daphnia magna mg/L
64742-95-6		mg/L LC50	EC50

#### Persistence and degradability

### **Bioaccumulation**

N/A.

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

N/A Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

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

laws and regulations.

Do not reuse container. Contaminated packaging

# 14. TRANSPORT INFORMATION

DOT

UN/ID no. 1993 Hazard Class 3 Packing Group III

TDG

**UN/ID no.** NA 1993

Proper shipping name Combustible liquid, n.o.s

Hazard Class 3
Packing Group III

MEX Regulated Not regulated.

**UN/ID no.** NA 1993

**Proper shipping name** Combustible liquid, n.o.s.

ICAO (air) Regulated Not regulated.

**UN/ID no.** 1993

**IATA** Regulated Not regulated.

**UN/ID no.** 1993

**IMDG** Regulated Not regulated.

**UN/ID no.** 1993

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

Chemical Name	SARA 313 - Threshold Values %
Asphalt (at Ambient Temperature) - 8052-42-4	0.1

SARA 311/312 Hazard Categories

Acute health hazard Yes Chronic Health Hazard Yes

Fire hazard Yes 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 contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Hydrated Aluminum-Magnesium Silicate (Attapulgite) - 12174-11-7	Carcinogen
Cellulose Fiber - 9004-34-6	Carcinogen
Quartz - 14808-60-7	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Asphalt (at Ambient Temperature) 8052-42-4	Х	X	X
Mineral Spirits (with < 0.1% Benzene) 8052-41-3	Х	X	X
Cellulose Fiber 9004-34-6	Х	X	Х
Kaolin 1332-58-7	Х	X	X
Nonane 111-84-2	Х	X	Х
Quartz 14808-60-7	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 2 Instability 0 **Physical and Chemical** Flammability 2

Properties -Personal protection -

Physical hazards 0

HMIS **Health hazards** 2 Flammability 2 Chronic Hazard Star Legend \* = Chronic Health Hazard

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**Revision Note** N/A

**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**