LUCAS Professional Coatings, Adhesives & Sealants

SAFETY DATA SHEET

Issue Date 21-Apr-2018 Revision Date 21-Apr-2018 Version 2

Product Name Universal Flashing Cement

Product Code LUCAS 6500

Recommended Use Used for flashing, sealing and repairing metal roofs and trailers, built up roofing, modified

bitumen, TPO, and other single-ply systems.

Synonyms None

Manufacturer Address R.M. Lucas Company

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

Emergency Telephone Call CHEMTREC Day or Night:

Within USA and Canada: 1-800 424-9300 Outside USA and Canada: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Viscous Physical state Paste/Gel. Odor Solvent (Mineral Spirits)

Potential health effects

Acute toxicity

Eyes May cause slight irritation

SkinNo known effect based on information suppliedInhalationNo known effect based on information suppliedIngestionNo known effect based on information supplied

Chronic Effects No known effect based on information supplied

Aggravated Medical Conditions None known for product as a whole.

Environmental hazard See Section 12: ECOLOGICAL INFORMATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Common name Sealant and Caulk.

Chemical Name	CAS No.	Weight-%
Styrene/Butadiene Copolymer	66070-58-4	26
Aromatic Naptha (with <0.1% Benzene)	64742-95-6	22
Mineral Spirits (with < 0.1% Benzene)	8052-41-3	13
Hydrocarbon Resin	69430-35-9	13
1,2,4 Trimethylbenzene	95-63-6	11
Hydrated Aluminum-Magnesium Silicate	12174-11-7	8

(Attapulgite)		
Titanium Dioxide	13463-67-7	4
Polyethylene homopolymer	9002-88-4	3

4. 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.

Note to physicians Treat symptomatically

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

5. FIRE-FIGHTING MEASURES

Flammable properties Not flammable

Flash point Not determined > 105 °F / > 40.5 °C

Method Setaflash

surrounding environment Dry chemical Carbon dioxide (CO2) Sand Use foam or water FOG

as a last resort.

Unsuitable extinguishing mediaDo not use a solid water stream as it may scatter and spread fire

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

vapors and fumes.

Explosion data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge May

Not sensitive

May be ignited by heat, sparks or flames

Specific hazards arising from the

chemical

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

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

NFPA Health hazards 2 Flammability 2 Stability 0 Physical and Chemical

Properties -

HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection -

* = Chronic Health Hazard

6. ACCIDENTAL RELEASE MEASURES

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

personal protective equipment as required.

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 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)

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

7. HANDLING AND STORAGE

outdoors

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

sparks, flame and other sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral Spirits (with < 0.1%	TWA: 100 ppm	TWA: 500 ppm	IDLH: 20000 mg/m ³
Benzene)		TWA: 2900 mg/m ³	Ceiling: 1800 mg/m ³ 15 min
8052-41-3		(vacated) TWA: 100 ppm	TWA: 350 mg/m ³
		(vacated) TWA: 525 mg/m ³	
1,2,4 Trimethylbenzene	-	-	TWA: 25 ppm
95-63-6			TWA: 125 mg/m ³
Hydrated Aluminum-Magnesium	TWA: 1 mg/m ³ respirable	-	-
Silicate (Attapulgite)	particulate matter		
12174-11-7			
Titanium Dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m ³
13463-67-7		(vacated) TWA: 10 mg/m ³ total dust	

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.

Personal Protective Equipment

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

No protective equipment is needed under normal use conditions. If exposure limits are

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

Appearance Viscous Odor Solvent (Mineral Spirits) 1-30 PPM. Odor White Black Color

Odor threshold thresholds vary greatly. Do not rely on odor threshold alone to

determine potentially hazardous substances.

Property Values Remarks • Method

Not applicable рH

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

shown. > 154 °C / 310 °F Boiling point / boiling range

Flash point $> 40.5 \, ^{\circ}\text{C} \, / > 105 \, ^{\circ}\text{F}$ Setaflash

Evaporation rate 0.1 Butly acetate = 1

Flammability (solid, gas) No information available

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

Upper flammability limit: 7.0 Lower flammability limit: 1.6

0.3 (kPa) @ 20 °C Vapor pressure

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

Specific Gravity 1.01 Water = 1g/ml Insoluble

Water solubility Solubility in other solvents Soluble in aromatic and aliphatic

solvents.

No information available Partition coefficient

No data available. **Autoignition temperature** 330 °C / 626 °F

Decomposition temperature No information available

Kinematic viscosity No information available Dynamic viscosity No information available

Explosive properties Vapor accumulation could flash or explode if ignited.

Oxidizing properties None

Other Information

Softening point Not applicable

No information available Molecular weight **VOC Content (%)** Less than 440 g/l

Density 8.45 lb/gal **Bulk density** Not applicable

10. STABILITY AND REACTIVITY

Stability Stable

Incompatible materials Strong acids Strong oxidizing agents

Conditions to avoid Avoid static discharge. Avoid heat, sparks, and open flame.

Hazardous Decomposition Products Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants.

Possibility of Hazardous Reactions None under normal use.

Hazardous polymerization Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

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 93, 2010, Carbon Black, Titanium Dioxide, Talc) states: "No

significant exposure to primary particles of Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints."

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aromatic Naptha (with <0.1%	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
Benzene)			
1,2,4 Trimethylbenzene	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h
Titanium Dioxide	> 10000 mg/kg (Rat)	-	-
Polyethylene homopolymer	= 8 g/kg (Rat) > 2000 mg/kg (Rat	-	-

Chronic toxicity

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
Hydrated	-	Group 2B	=	X
Aluminum-Magnesium		-		
Silicate (Attapulgite)				
Titanium Dioxide	-	Group 2B	-	X
Polyethylene homopolymer	-	Group 3	-	-

Legend

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.

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

X - Present

Sensitization May cause sensitization of susceptible persons.

Germ cell mutagenicity

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

Reproductive toxicityNone known for product as a whole.

Developmental ToxicityNone known for product as a whole.

Teratogenicity None known

Target Organ Effects None known for product as a whole

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

Chemical Name	Algae/aquatic plants	FISh	Crustacea

Aromatic Naptha (with <0.1%	-	9.22: 96 h Oncorhynchus mykiss 6.14: 48 h Daphnia ma	
Benzene)		mg/L LC50	EC50
1,2,4 Trimethylbenzene	=	7.19 - 8.28: 96 h Pimephales	6.14: 48 h Daphnia magna mg/L
		promelas mg/L LC50 flow-through	EC50
Chemical Name		Partition coefficient	
1,2,4 Trimethylbenzene		3.0	63

13. DISPOSAL CONSIDERATIONS

Contaminated packaging Do not reuse container

14. TRANSPORT INFORMATION

DOT Not regulated.

TDG Not regulated.

MEX Not regulated.

ICAO (air) Not regulated.

IATA 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 Complies **DSL/NDSL** Complies **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Complies **KECL** Does not comply **PICCS** Complies Complies **AICS**

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

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Styrene/Butadiene Copolymer	Х	Х	-	-	-	Х	Х	X	X	Х
Aromatic Naptha (with <0.1% Benzene)	Х	Х	-	Х	-	-	Х	Х	Х	Х
Mineral Spirits (with < 0.1% Benzene)	Х	Х	-	Х	-	-	Х	Х	Х	Х

Hydrocarbon Resin	Χ	Х	-	-	-	Х	Χ	Χ	Χ	Х
1,2,4 Trimethylbenzene	X	Х	-	Х	-	Х	X	Х	Х	Х
Hydrated	-	-	-	-	-	-	X	-	Х	Х
Aluminum-Magnesium										
Silicate (Attapulgite)										
Titanium Dioxide	X	X	-	Х	-	X	X	Χ	X	X
Polyethylene homopolymer	Χ	X	-	-	-	X	X	X	Χ	Х

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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 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

U.S. State Right-to-Know Regulations

International Regulations

Chemical Name	Carcinogenicity	Exposure Limits
Mineral Spirits (with < 0.1% Benzene)	-	Mexico: TWA 100 ppm
		Mexico: TWA 523 mg/m ³
		Mexico: STEL 200 ppm
		Mexico: STEL 1050 mg/m ³
Titanium Dioxide	-	Mexico: TWA 10 mg/m ³
		Mexico: STEL 20 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2A - Very toxic materials

D2B - Toxic materials

Chemical Name	NPRI

1,2,4 Trimethylbenzene	X

16. OTHER INFORMATION

Prepared by Robert Barry 21-Apr-2018 21-Apr-2018 Prepared By Issue Date

Revision Date

Revision Note No information available

End of Safety Data Sheet