

SAFETY DATA SHEET

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

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

Product identifier

Product Name Seal-Fast Repair Hero

Other means of identification

Product Code

Synonyms None

Recommended use of the chemical and restrictions on use

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

bitumen, TPO, and other single-ply systems.

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

Inois 60608

Supplier Address

Mule-Hide Products, Co., Inc. 1195 Prince Hall Drive Beloit, Wi 53511 (800) 786-1492

Emergency telephone number

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

Classification

OSHA Regulatory Status

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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

Label elements

Emergency Overview

Danger

Hazard statements

Causes skin irritation

Causes serious eye irritation Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

Flammable liquid and vapor



Appearance Viscous 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

Wash face, hands and any exposed skin thoroughly after handling

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

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 explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see first aid information on this label) If skin irritation occurs: Get medical advice/attention

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

Wash contaminated clothing before reuse

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

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
- · Toxic to aquatic life with long lasting effects
- · Harmful to aquatic life

Unknown acute toxicity 47% 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 Solvent-based White Mastic.

Synonyms None.

Chemical nature Organic solvents and additives.

Chemical Name	CAS No.	Weight-%	Trade Secret
Styrene/Butadiene Copolymer	66070-58-4	20 - 30%	*
Aromatic Naptha (with <0.1% Benzene)	64742-95-6	10 - 20%	*
Mineral Spirits (with < 0.1% Benzene)	8052-41-3	10 - 20%	*
Hydrocarbon Resin	69430-35-9	10 - 20%	*
1,2,4 Trimethylbenzene	95-63-6	0 - 10%	*
Parachlorobenzotriflouride	98-56-6	0 - 10%	*
Hydrated Aluminum-Magnesium Silicate	12174-11-7	0 - 10%	*
(Attapulgite)			
Titanium Dioxide	13463-67-7	0 - 10%	*
Polyethylene homopolymer	9002-88-4	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 productsThermal 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 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).

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 containmentContain 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. Remove all sources of ignition. Use only

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 No ACGIH or OSHA PEL is assigned to this mixture.

Exposure limits for the component materials are shown below.

This product, as supplied, is not believed to contain any hazardous material that exceeds

exposure limits established by OSHA.

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
Parachlorobenzotriflouride 98-56-6	TWA: 2.5 mg/m³ F	TWA: 2.5 mg/m³ F (vacated) TWA: 2.5 mg/m³	IDLH: 250 mg/m³ F
Hydrated Aluminum-Magnesium Silicate (Attapulgite) 12174-11-7	TWA: 1 mg/m³ respirable particulate matter	-	-
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/m³ total 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

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

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

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

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

Odor

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

Solvent (Mineral Spirits) 1-30 PPM. Odor Color White Odor threshold

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

Property Values Remarks • Method

Not applicable

Melting point/freezing point None / -70 °C None / -94 °F

Boiling point / boiling range > 154 °C / 310 °F > 40.5 °C / > 105 °F

Flash point **Evaporation rate** 0.1

Flammability Limit in Air

Flammability (solid, gas) No information available

Upper flammability limit: 7.0 Lower flammability limit: 1.6

Vapor pressure 0.3 (kPa) Vapor density 5.3

Specific Gravity 1.10 Water solubility Insoluble

Solubility in other solvents Soluble in aromatic and aliphatic

solvents.

Partition coefficient **Autoignition temperature Decomposition temperature** Kinematic viscosity

No information available 330 °C / 626 °F No information available No information available Melting Point is not applicable. Freezing points are

shown.

Setaflash Butly acetate = 1

Flammable above 105 degrees F and 40.5 degrees

@ 20 °C

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

Water = 1q/mI

No data 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 300 g/l **Density** 8.5 lb/gal Not applicable **Bulk density**

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.

Avoid breathing vapors or mists. Inhalation

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

Skin contact May cause irritation.

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

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% Benzene) 64742-95-6	= 8400 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	= 3400 ppm (Rat) 4 h
1,2,4 Trimethylbenzene 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³ (Rat) 4 h
Parachlorobenzotriflouride 98-56-6	= 13 g/kg (Rat)	> 2 mL/kg(Rabbit)	= 33 mg/L (Rat) 4 h
Titanium Dioxide	> 10000 mg/kg (Rat)	-	-

13463-67-7			
Polyethylene homopolymer	= 8 g/kg (Rat) > 2000 mg/kg (Rat	-	-
9002-88-4)		

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

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.

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Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrated Aluminum-Magnesium Silicate (Attapulgite) 12174-11-7	-	Group 2B	-	X
Titanium Dioxide 13463-67-7	-	Group 2B	-	X
Polyethylene homopolymer 9002-88-4	-	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

Reproductive toxicity Developmental ToxicityNone known for product as a whole.
None known for product as a whole.

Teratogenicity None known.

STOT - single exposureNo information available.STOT - repeated exposureNo information available.Aspiration hazardNo information available.

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.

 ATEmix (oral)
 7,995.00

 ATEmix (dermal)
 3,664.00

 ATEmix (inhalation-dust/mist)
 7.23

12. ECOLOGICAL INFORMATION

Ecotoxicity

The following table lists information related to aquatic toxicity

The following table intermediate to aquatic textory				
Chemical Name	Algae/aquatic plants	Fish	Crustacea	
Aromatic Naptha (with <0.1%	=	9.22: 96 h Oncorhynchus mykiss	6.14: 48 h Daphnia magna mg/L	
Benzene)		mg/L LC50	EC50	
64742-95-6		_		
1,2,4 Trimethylbenzene	-	7.19 - 8.28: 96 h Pimephales	6.14: 48 h Daphnia magna mg/L	
95-63-6		promelas mg/L LC50 flow-through	EC50	
Parachlorobenzotriflouride	-	11.5 - 15.8: 48 h Lepomis	3.68: 48 h Daphnia magna mg/L	
98-56-6		macrochirus mg/L LC50 static	EC50	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
1,2,4 Trimethylbenzene 95-63-6	3.63
Parachlorobenzotriflouride 98-56-6	3.7

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

DOT Not regulated.

RID Not applicable in the United States.

ADR Not applicable in the United States.

ADN Not applicable in the United States.

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

 $\textbf{EINECS/ELINCS} \ \ \textbf{-} \ \textbf{European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances}$

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 contains a chemical

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Personal protection -

or 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 %
1,2,4 Trimethylbenzene - 95-63-6	1.0
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
Titanium Dioxide - 13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations

This product contains the following substances regulated by various State Right-to-Know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Mineral Spirits (with < 0.1%	X	X	X
Benzene)			
8052-41-3			
1,2,4 Trimethylbenzene	X	X	X
95-63-6			
Parachlorobenzotriflouride	X	=	-
98-56-6			
Titanium Dioxide	X	X	X
13463-67-7			

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 Flammability 2 Instability 0 Physical and Chemical

Physical hazards 0

Properties -

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

Prepared By Prepared by Robert Barry

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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