Safety Data Sheet

Issue Date: 01-Jun-2012 **Revision Date:** 13-Jan-2016 **Version** 1

1. IDENTIFICATION

Product Identifier
Product Name #7 Mastic®

Other means of identification
SDS # RCD 7

Recommended use of the chemical and restrictions on use
Recommended Use Seal fabricated air ducts.

Details of the supplier of the safety data sheet
Supplier Address
RCD Corporation
2850 Dillard Road
Eustis, FL 32726
www.rcdmastics.com

Emergency Telephone Number
Company Phone Number 352-589-0099
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Gray viscous liquid **Physical state** Viscous liquid **Odor** Pleasant

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which, at their given concentration, are considered to be hazardous to health. However, additional component information is available in subsequent sections of this SDS.

Chemical Name	CAS No.	Weight-%
Ground Limestone *	1317-65-3	20-25
Aluminum Hydroxide *	21645-51-2	10-15
Perlite *	93763-70-3	1-5
Zinc Oxide *	1314-13-2	1-5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

*As respirable dust, nuisance dust only. Normal application procedures pose no hazard since these ingredients are encapsulated, but grinding or sanding dried films may yield respirable dusts.

4. FIRST AID MEASURES

First Aid Measures

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Inorganic particulate materials may cause mechanical irritation. Seek immediate medical attention/advice.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. DO NOT USE SOLVENTS OR THINNERS to remove from skin. Get medical attention if irritation occurs.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. If breathing is difficult, oxygen should be administered by qualified personnel.

Ingestion Do NOT induce vomiting. Drink plenty of water or milk immediately. Call a poison center or doctor/physician if you feel unwell.

Most important symptoms and effects

Symptoms May cause mild eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical or CO2. Water fog. Universal foam.

Unsuitable Extinguishing Media Not applicable.

Specific Hazards Arising from the Chemical
Product is not flammable or combustible. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2).

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 Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Provide ventillation. Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material.

Methods for Clean-Up Sweep up and shovel into suitable containers for disposal. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store away from incompatible materials. Store away from heat, sparks, flame. Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ground Limestone 1317-65-3	-	TWA: 15 mg/m^3 total dust TWA: 5 mg/m^3 respirable fraction (vacated) TWA: 15 mg/m^3 total dust (vacated) TWA: 5 mg/m^3 respirable fraction	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust
Aluminum Hydroxide 21645-51-2	TWA: 1 mg/m^3 respirable fraction	-	-
Perlite 93763-70-3	-	(vacated) TWA: 15 mg/m^3 total dust (vacated) TWA: 5 mg/m^3 respirable fraction	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust
Zinc Oxide 1314-13-2	STEL: 10 mg/m^3 respirable fraction TWA: 2 mg/m^3 respirable fraction	TWA: 5 mg/m^3 fume TWA: 15 mg/m^3 total dust TWA: 5 mg/m^3 respirable fraction (vacated) TWA: 5 mg/m^3 fume (vacated) TWA: 10 mg/m^3 total dust (vacated) TWA: 5 mg/m^3 respirable fraction (vacated) STEL: 10 mg/m^3 fume	IDLH: 500 mg/m^3 Ceiling: 15 mg/m^3 dust TWA: 5 mg/m^3 dust and fume STEL: 10 mg/m^3 fume

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical safety goggles/faceshield. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Chemical resistant, impermeable gloves. Suitable protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Wear an appropriate NIOSH/MSHA approved respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Viscous liquid		
Appearance	Gray viscous liquid	**Odor**	Pleasant
Color	Gray	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	7.0-8.0	
Melting Point/Freezing Point	0 °C / 32 °F	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	> 162.7 °C / > 325 °F	Tag Open Cup
Evaporation Rate	Same as water	
Flammability (Solid, Gas)	non-flammable	
Flammability Limits in Air		Not applicable
Upper Flammability Limits	Not applicable	
Lower Flammability Limit	Not applicable	
Vapor Pressure	Equal to water	
Vapor Density	equal to water	
Relative Density	>1.16	
Water Solubility	Miscible in water	
Solubility in other solvents	Soluble	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not applicable	
Decomposition Temperature	>1000°F / 537.7°C	
Kinematic Viscosity	7,143 cSt	
Dynamic Viscosity	70,000 cps	
Explosive Properties	None - Stable	
Oxidizing Properties	None - Stable	

Other Information

VOC Content <50 g/L

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Heat, flames and sparks.

Incompatible Materials
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide. Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact May cause irritation to the eyes.

Skin Contact Not a primary skin irritant.

Inhalation Not an expected route of exposure.

Ingestion The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed.

Component Information

Chemical Name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Aluminum Hydroxide 21645-51-2	> 5000 mg/kg (Rat)	-	-
Zinc Oxide 1314-13-2	> 5000 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Zinc Oxide 1314-13-2			Reasonably Anticipated	X

Legend

NTP (National Toxicology Program)
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 18,937.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity
The ecological toxicity of this product is not known

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

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

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

California Hazardous Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical Name	California Hazardous Waste Status
Zinc Oxide 1314-13-2	Toxic

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ground Limestone	X	X	X	Present	X	Present	X	X
Aluminum Hydroxide	X	X	X	Present	X	Present	X	X
Perlite		X			X	Present	X	X
Zinc Oxide	X	X	X	Present	X	Present	X	X
1,2 Propanediol	X	X	X	Present	X	Present	X	X

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

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) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

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

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Zinc Oxide - 1314-13-2	1314-13-2	1-5	1.0

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc Oxide		X		

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ground Limestone 1317-65-3	X	X	X
Perlite 93763-70-3	X	X	X
Zinc Oxide 1314-13-2	X	X	X
1,2 Propanediol 57-55-6	X		X

OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	1	0	0	-
HMIS	**Health Hazards**	**Flammability**	**Physical hazards**	**Personal Protection**
	1	0	0	B

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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