



Safety Data Sheet

Issue Date 03-Sep-2013

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Version 1

1. IDENTIFICATION

Product Identifier

Product Name Blacktop & Roof Repair – Solvent Based - Black

Other means of identification

SDS # RD-0049

UN/ID No NA1993
Product Code 0636 Series

Recommended use of the chemical and restrictions on use

Recommended Use No information available.

Details of the supplier of the safety data sheet

Supplier Address

Red Devil, Inc.
4175 Webb Street
Pryor, Oklahoma 74361
www.reddevil.com

Emergency Telephone Number

Company Phone Number 918-825-5744
Fax: 918-825-5761
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Black **Physical State** Paste **Odor** Solvent

Classification

Flammable Liquids	Category 4
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Hazards Not Otherwise Classified (HNOC)

May be harmful in contact with skin

Hazard Statements

Combustible liquid

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Petroleum Asphalt	8052-42-4	<40
Calcium Carbonate	1317-65-3	<30
Non-hazardous Ingredients*	Proprietary	<10
Light aliphatic solvent naphtha	64742-48-9	<10
Attapulgate Clay	12174-11-7	<10
Cellulose Fiber	9004-34-6	<5

*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).
(Calcium Carbonate, Attapulgate and Cellulose) Inhalation of particulates unlikely due to product's physical state.

4. FIRST-AID MEASURES**First Aid Measures****General Advice**

Provide this SDS to medical personnel for treatment. Get medical attention for any significant overexposure.

Eye Contact

Immediately flush w/ large quantities of water for @ least 15 minutes, until irritation subsides. Get medical attention.

Skin Contact

Immediately remove from skin by wiping w/ waterless hand cleaner, followed by soap & water. Get medical attention if symptoms persist.

Inhalation

Remove to fresh air. If breathing difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention immediately. If there are symptoms of hydrogen sulfide exposure, move to fresh air. If breathing has stopped, apply artificial respiration & get immediate medical attention.

Ingestion

Do not induce vomiting unless advised by a physician. Call nearest poison control center or physician immediately. Never give anything by mouth to an unconscious person. If possible, drink milk afterwards. Harmful or fatal if liquid aspirated into lungs. If swallowed, drink 8 to 10 oz water & get immediate medical attention.

Most important symptoms and effects

Symptoms

Inhalation: Vapor harmful. Inhalation may result in irritation to nose, mouth & mucous membranes. Vapors may be irritating to eyes, nose, throat & lungs. Inhalation of high vapor concentrations can cause central nervous system depression & narcosis. May contain sulphur compounds that may form hydrogen sulfide. The "rotten eggs" odor of hydrogen sulfide is not reliable as an indicator of concentration. Signs/symptoms of over exposure to hydrogen sulfide include respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing & a sensation of dryness & pain in the nose, throat & chest, confusion & unconsciousness.

Eyes: May cause eye irritation, characterized by a burning sensation, tearing, inflammation & redness. Signs/symptoms may include tears, pain, swelling, redness & blurred vision.

Ingestion: Harmful or fatal if swallowed.

Skin: May cause skin irritation. Harmful if absorbed through skin. Signs/symptoms may include pain, discoloration & swelling. Prolonged or repeated contact can result in dermatitis or burns. Do not attempt to peel solidified material from skin or use solvents to aid removal. Use vegetable oil to aid removal from skin. Rinse exposed area w/ water while removing contaminated clothing.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Provide general supportive measures and treat symptomatically. Aggravated Medical Conditions: Pre-existing eye, skin & respiratory disorders may be aggravated by exposure.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Carbon dioxide (CO₂). Dry chemical. Water spray (fog). Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media If fire fighting necessary, do not use a solid stream of water as stream will scatter/spread the fire.

Specific Hazards Arising from the Chemical

Fire & Explosion Conditions: Product not expected to ignite in normal conditions of use. Heating may release Hydrogen Sulfide Gas.

Hazardous Combustion Products Smoke, fumes. Carbon monoxide & carbon dioxide can form.

Sensitivity to Static Discharge Take precautionary measures against static discharge.

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. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Wear protective clothing as described in Section 8 of this safety data sheet.

Other Information

Small Spills: 1 drum or less – Level D Equipment (gloves, chemical resistant apron, boots & eye protection).
Large Spills: Rubber gloves, rubber boots, face shield & Tyvek suit as a minimum. Minimum level of PPE for releases in which the oxygen level is < 19.5% or is unknown, should be Level B: triple gloves (rubber gloves & nitrile gloves over latex gloves), chemical resistant suit, fire-retardant clothing & boots, hard hat & self-contained breathing apparatus.

For Emergency Responders

Restrict access to spill area.

Environmental Precautions

Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater. Do not allow discharge containing this material to enter streams, ponds, estuaries, oceans or other waters unless in accordance w/ requirements of National Pollutant Discharge Elimination System (NPDES) permit & permitting authority has been notified in writing prior to discharge. Do not allow discharge containing this material to enter sewer systems w/o previously notifying local sewage treatment plant authority. For information, contact State Water Board or EPA Regional Office

Other: U.S. regulations may require reporting of spills of this material reaching surface waters if sheen is formed. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so. Use absorbent material to contain spill.

Methods for Clean-Up

Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Wash area with soap and water. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Provide fresh air to extent that chemical odors cannot be detected during use & drying. Do not breathe vapors. Wear eye/face protection. Wash thoroughly with soap and water after handling. Avoid contact with skin, eyes or clothing. While handling product keep out of reach of children and pets. Do not eat or drink while handling this material. See section 6 of this SDS for clean up instructions. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Keep cool.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from incompatible materials. Protect from direct sunlight.

Incompatible Materials

Strong oxidizing agents, Caustics.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Exposure guidelines / protective equipment are for routine handling and accidental spills

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum Asphalt 8052-42-4	TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m ³ fume 15 min
Calcium Carbonate 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
Attapulgite Clay 12174-11-7	TWA: 1 mg/m ³ respirable fraction	-	-

Cellulose Fiber 9004-34-6	TWA: 10 mg/m 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
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Appropriate engineering controls**Engineering Controls**

Provide sufficient general &/or local exhaust ventilation to maintain exposure below recommended exposure limits. Vapors are heavier than air & may spread along floors. Provide fresh air entry during application & curing. Safety shower & eyewash should be in immediate area.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Goggles or safety glasses w/ side shields. Note: Contact lenses pose a special hazard; soft lenses may absorb & all lenses concentrate irritants. Safety shower & eyewash should be in immediate area.

Skin and Body Protection

Prevent contact w/ shoes & clothing. If repeated or prolonged contact likely, wear protective clothing, including boots, apron & face shield or splash goggles.
Hand Protection: Neoprene gloves.

Respiratory Protection

Not required under normal conditions of use. Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on SDS. Follow manufacturer's directions for respirator use.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Remove & wash contaminated clothing before reuse. Wash hands before breaks & @ end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Paste	Odor	Solvent
Appearance	Black	Odor Threshold	Not determined
Color	Black		

Property

Note: The information below is not intended for use in preparing product specifications

Remarks • Method

pH	Not applicable	
Melting Point/Freezing Point	Not established	
Boiling Point/Boiling Range	Not determined	
Flash Point	~ 71.11 °C / ~ 160 °F	CC (closed cup)
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not available	
Lower Flammability Limit	Not available	
Vapor Pressure	Not available	
Vapor Density	Heavier than air	
Specific Gravity	~1.00-1.50 (calculated)	
Water Solubility	Insoluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not available	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	

Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined
VOC Content (%)	20%
VOC Content	<200 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

Incompatible Materials. Heat, sparks & open flame.

Incompatible Materials

Strong oxidizing agents, Caustics.

Hazardous Decomposition Products

Nitrogen oxides (NOx). Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact

Eye contact may result in tearing, redness & pain.

Skin Contact

Repeated skin contact may cause dermatitis. May be harmful in contact with skin.

Inhalation

May cause irritation of respiratory tract.

Ingestion

May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum Asphalt 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Light aliphatic solvent naphtha 64742-48-9	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	-
Cellulose Fiber 9004-34-6	> 5 g/kg (Rat)	> 2 g/kg (Rabbit)	> 5800 mg/m ³ (Rat) 4 h

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

Sensitization

Not known to be human skin or respiratory sensitizers.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. CAS #8052-42-4 Bitumens, occupational exposure to straight-run bitumens and their emissions during road paving. Attapulgite Clay is a possible carcinogen when it appears as a respirable dust. Inhalation of crystalline silica as quartz (small percentage present in calcium carbonate filler) can cause cancer based on animal data. IARC concludes sufficient evidence in humans (Group 1). Prolonged & repeated overexposure to free crystalline silica dust above TLV level may cause scarring of the lungs, coughing & shortness of breath. Note: Inhalation of crystalline silica from normal use is unlikely, due to products physical state.

Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum Asphalt 8052-42-4		Group 2B		X
Attapulgite Clay 12174-11-7		Group 2B Group 3		X

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

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

X - Present

Target organ effects

Acute: Eyes & Skin. Chronic: Skin.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Light aliphatic solvent naphtha 64742-48-9		2200: 96 h Pimephales promelas mg/L LC50		2.6: 96 h Chaetogammarus marinus mg/L LC50

Persistence/Degradability

Not tested for persistence & biodegradability

Bioaccumulation

Not tested for bio-accumulation potential

Mobility

Chemical Name	Partition Coefficient
Petroleum Asphalt 8052-42-4	>6

Other Adverse Effects

Environmental Exposure Controls: Should be maintained so as to prevent release to the environment (atmospheric release, release to waterways & spills)

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.

US EPA Waste Number

Not Applicable

14. TRANSPORT INFORMATION

Note According to 49 CFR §173.150(f)(1), this material should be reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.

DOT Not regulated
UN/ID No NA1993

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed
NDSL	Listed

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

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes

SARA 313

Not determined

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Attapulgite Clay - 12174-11-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Petroleum Asphalt 8052-42-4	X	X	X
Calcium Carbonate 1317-65-3	X	X	X
Cellulose Fiber 9004-34-6	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	2	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	2	0	X

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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