

GemSeal RC-70

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.



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Date of issue: 06/07/2017

Version: 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : GemSeal RC-70; Cutback Asphalt; Road Oil
Product code : Not available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Prime Coat; Tack Coat; Surface Treatment

1.3. Details of the supplier of the safety data sheet

GemSeal Pavement Products
3700 Arco Corporate Drive, Suite 425
Charlotte, NC 28273 - USA
T 866-264-8273 Tech Service: Monday - Friday; 8:00am - 5:00pm EST

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300

SECTION 2: Hazards identification

2.1. NFPA / HMIS Rating

NFPA Rating : Health = 2; Fire = 2; Reactivity = 0; Special Hazard = 0
HMIS III Rating : Health = 2 (chronic); Fire = 2; Reactivity = 0; Special Hazard = 0

2.2. Classification of the substance or mixture

GHS-US classification

Flammable Liquid: Category 1
Skin Irritant: Category 2
Germ Cell Mutagenicity: Category 1B
Carcinogenicity: Category 1B
Reproductive Toxicity: Category 2
Special Target Organ Toxicity,
Single Exposure: Category 3 narcotic effects
Hazardous to the Aquatic
Environment, Long Term Hazard: Category 2

2.3. Label elements

GHS-US labelling



Hazard pictograms (GHS-US):

Signal word (GHS-US):

Hazard statements (GHS-US):

Danger

Flammable liquid, vapors may explode. Causes skin irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

Precautionary statements (GHS-US):

Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground container and receiving equipment and take precautionary measures against static discharges. Liquid can cause eye and skin irritation, wear protective clothing/gloves/eye/face protection. Avoid contact with eyes, skin, and clothing. Avoid breathing dust/fumes/gas/mist/vapors/spray. Hot product can cause burns. Fumes from hot product can cause irritation to eyes, skin, and respiratory system. Use only outdoors, or in a well-ventilated area. Wash thoroughly after handling.

GemSeal RC-70

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% Concentration
Petroleum Asphalt	(CAS No) 8052-42-4	60 - 90
Naphtha	(CAS No) 8030-30-6	10 - 40
Hydrogen Sulfide	(CAS No) 7783-06-4	<0.1

* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

- Skin Contact** : Cool rapidly with water. Do not remove product which has adhered to the skin. Remove contaminated clothing and shoes but cut around any clothing that has adhered to the skin.
- Eye Contact** : Immediately flush eyes with copious amounts of water for at least 15 min. SEEK IMMEDIATE MEDICAL ATTENTION.
- Ingestion** : DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION. Do not give mouth-to-mouth resuscitation.
- Inhalation** : Move the person to fresh air and monitor for respiratory distress.
NOT BREATHING: Begin rescue breathing and SEEK IMMEDIATE MEDICAL ATTENTION.
NOTE: Inhalation exposure of fumes of hot product can produce toxic effects. Treat intoxications as hydrogen sulfide exposures.

4.2. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable Extinguishing Media** : Dry chemical foam, carbon dioxide, or water fog. Use of directly applied water stream is not recommended as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

- Hazardous Combustion Products** : Carbon dioxide, carbon monoxide, oxides of sulfur and/or nitrogen, unburned hydrocarbons, and smoke fumes. At elevated temperatures hydrogen sulfide and other sulfur containing gases may be produced.

5.3. Special properties

- Properties** : Flammable liquid. In a fire or if a container is heated, a pressure increase will occur and the container may burst with risk of explosion. Vapors are heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas, or travel to a source of ignition and then flash back. Runoff to a sewer may create a fire or explosion hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

- General measures** : Wash hands and other exposed skin areas with soap and water before eating, drinking, smoking, using toilet facilities, or leaving the work area. Use only soaps/agents approved for human use – do not use solvents or harsh abrasives.

6.2. Methods and material for containment and cleaning up

- Small Spills** : Absorb or cover with earth, sand, or other inert non-combustible absorbent material. Scrape up and place into containers for disposal. Use non-sparking tools to scrape up.
- Large Spills** : Eliminate all sources of ignition. In all cases, stop the source of the leak only when it is safe to do so.
LAND: Contain the spill with dikes of earth or sand. Do not allow to enter waterways or sewer. Absorb product with earth, sand, or other non-combustible absorbent material. Scrape up absorbed material and diking material and place into drums for disposal.
WATER: The asphalt will harden upon contact with water. Contain as much as possible with booms and begin recovery as soon as possible. Notify local and state authorities and the National Response Center if required.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

GemSeal RC-70

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors. Wash thoroughly after handling. Do not eat, smoke, or drink while working with material. Keep away from any sources of ignition. Ground lines, containers, and other equipment during product transfer to reduce risk of a static-induced spark. Empty containers will contain product residue and vapors and may explode if heated or exposed to an ignition source. Do not cut, grind, weld, braze solder, or drill on containers until properly ventilated and free of flammable residues and vapors.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Flammable liquid storage. Do not store near any sources of ignition. This material can accumulate a static charge which may spark and become an ignition source. Pressure in sealed containers can increase under the influence of heat. Do not store near food, drink, or animal feedstuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Petroleum Asphalt (8052-42-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³
Naphtha (8030-30-6)		
USA OSHA	OSHA PEL (mg/m ³) OSHA PEL (TWA) (mg/m ³)	400 mg/m ³ 100 mg/m ³
NIOSH	NIOSH TWA (ppm)	100 ppm
Hydrogen Sulfide (7783-06-4)		
USA OSHA	OSHA PEL (mg/m ³) STEL (mg/m ³)	14 mg/m ³ 21 mg/m ³
USA ACGIH	ACGIH TWA (mg/m ³) STEL (ppm)	1 ppm 5 ppm

8.2. Exposure controls

General : PPE should be based on a risk assessment of the work area. In all cases use good personal hygiene.

Skin : Work clothes, boots, and work gloves should be worn.

Eye protection : OSHA approved safety glasses. A suitable eyewash station should be available if possible.

Respiratory protection : With adequate ventilation a respirator is not required. If the risk assessment indicates a respirator is required, a NIOSH/MSA approved air-purifying particulate respirator suitable for dusts, fumes, and mists should be used. Respirator selection must be based on known or anticipated exposure limits for the hazards and the safe working limits of the respirator.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed, or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Viscous liquid @ 70°F. Free-flowing liquid @ 140°F.

Color : Brown-Black.

Odor : Mild-strong petroleum & solvent odor.

Odor threshold : No data available.

pH : Not applicable.

Relative evaporation rate (butyl acetate=1) : No data available.

Melting point : Not applicable.

Freezing point : Not applicable.

Boiling point : >300°F (150°C).

Flash point : min. 105°F (40.6°C).

GemSeal RC-70

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Self-ignition temperature	: No data available.
Decomposition temperature	: Not applicable.
Flammability	: NFPA Class II Combustible.
Lower Flammable Limit, % by Vol.	: 1.0
Upper Flammable Limit, % by Vol.	: 7.5
Vapor pressure	: No data available.
Relative density	: >1 (Water = 1).
Solubility	: Water = Insoluble.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.

9.2. Other information

VOC content	: No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive under normal conditions.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

Minimal.

10.4. Conditions to avoid

Keep away from all possible sources of ignition. Keep away from extreme heat, strong acids, and normal oxidizers.

10.5. Incompatible materials

Strong oxidizers such as nitrates, chlorates, and peroxides.

10.6. Hazardous decomposition products

Combustion produces carbon dioxide, carbon monoxide, oxides of sulfur and/or nitrogen, and unburned hydrocarbons. At elevated temperatures hydrogen sulfide and other sulfur gases may be produced.

SECTION 11: Toxicological information

11.1. Major routes of entry

Skin Contact; Inhalation

11.2. Symptoms related to:

Skin	: Irritation with reddening, itching, burning feeling, and / or swelling. Contains component(s) that may cause allergic skin reactions. Repeated skin contact may cause harmful effects to other parts of the body. Hot material may cause thermal burns.
Eye	: Irritation with tearing, redness, stinging, or burning feeling. Hot material can cause thermal burns with eye tissue destruction and possible permanent injury.
Inhalation	: No significant adverse health effects expected during normal exposure to product at room temperature. Fumes from hot product may cause irritation to the respiratory tract.
Ingestion	: Stomach and / or intestinal pain, nausea, vomiting, and / or diarrhea.
Other information	: Do not eat, smoke or drink where material is handled, processed, or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

11.3. Short term exposure

Immediate	: May cause skin and respiratory tract irritation.
Chronic	: May cause skin and respiratory tract irritation.

11.4. Long term exposure

Immediate	: May cause dermatitis, acne, and / or photosensitization of the skin. May cause respiratory tract irritation.
Chronic	: May cause dermatitis, acne, and / or photosensitization of the skin. May cause respiratory tract irritation.

GemSeal RC-70

Safety Data Sheet

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11.5. Toxicity data

Asphalt	
LD50 oral rat (Acute)	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Naphtha	
LD50 oral rat	5 mg/kg
LD50 dermal rabbit	3 mg/kg
Inhalation (vapor) LC50 rat	3400 mg/kg (4 hr.)

Hydrogen Sulfide	
Intraperitoneal LD50 rat	2300 µg/kg
Intravenous LD50 rat	270 µg/kg
Inhalation (vapor) LC50 rat	820 mg/kg (3 hr.)
Inhalation (gas) LC50 rat	712 ppm (1 hr.)

11.6. Carcinogenic data

Asphalt	: IARC: Determined that there is sufficient evidence that extracts of stream and air refined bitumen are carcinogenic in animals, but there is inadequate evidence that bitumen alone is carcinogenic to humans.
Naphtha	: Not available.
Hydrogen Sulfide	: No known significant effects.

11.7. Target organs

Skin, Eyes, Respiratory system

SECTION 12: Ecological information

Ecotoxicity	: Harmful to aquatic organisms.
Persistence & Biodegradability	: Expected to have a low rate of biodegradation.
Bioaccumulative Potential	: Expected to have a low rate of bioaccumulation.
Mobility in Soil	: Mobile in soil until solvent has evaporated off but not expected to penetrate deeply to contaminate ground water.

SECTION 13: Disposal considerations

13.1. RCRA Classification

RC Cutback Asphalt may be hazardous waste if the flashpoint is below 140°F (60°C) [RCRA Waste Code: D001]. Product to be disposed of should be tested for the flashpoint to determine whether or not it meets the criteria for ignitibility as hazardous waste.

13.2. Waste disposal

Disposal of this product, solutions, and any by-products must comply with Local, State, and Federal Regulations.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

1999

14.2. UN proper shipping name

Tars, liquid (cutback asphalt)

14.3. IATA

Hazard Class: 3 Packing Group: III Label: Class 3 Flammable Other: ERG Code: 3L

14.3. IMDG

Hazard Class: 3 Packing Group: III Label: Class 3 Flammable Other: EmS: F-E, S-E

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Safety Data Sheet

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SECTION 15: Regulatory information

Regulatory Information	
TSCA Inventory	This product and / or its components are listed on the Toxic Substances Control Act (TSCA) Inventory.
OSHA Hazard Communication Standard	This product has been determined to be hazardous as defined in the OSHA Hazard Communication Standard.
SARA 302 Emergency Planning and Notification	Extremely Hazardous Substances (40 CFR 302.4, 40 CFR 355) Identified in this product: Hydrogen Sulfide (500 lb. TPQ)
SARA 304 Emergency Planning and Notification	Extremely Hazardous Substances or CERCLA Hazardous Substances which in the case or spill may be subject to reporting requirements; Hydrogen Sulfide (100 lb. Final RQ)
SARA 311 / 312 Emergency Planning and Notification	EPA Hazard Category: Acute
SARA 313 Emergency Planning and Notification	This product contains the following components that may be subject to reporting on the Toxic Release Inventory Form R: NONE
CERCLA	CERCLA requires notification to the National Response Center of the release of "hazardous substances" equal to or greater than the RQ listed in 40 CFR 302.4: NONE
RCRA	Waste classification depends on the flash point of the product. The hazard characteristic and regulatory waste stream classification can change with product use. It is the responsibility of the user to determine at the time of disposal whether the material is a hazardous waste subject to RCRA or not.
Clean Water Act	This product is classified as an oil under Section 311 of CWA. Discharges or spills which produce a visible oil sheen on waters of the United States or adjoining shorelines or conduits leading into surface waters must be reported to the National Response Center at 1-800-424-8802. Local and state regulations may be more restrictive and require additional reporting.
Oil Pollution Act	This product is classified as an oil under the OPA. Discharges or spills which produce a visible oil sheen on waters of the United States or adjoining shorelines or conduits leading into surface waters must be reported to the National Response Center at 1-800-424-8802. Local and state regulations may be more restrictive and require additional reporting.
Clean Air Act	This product contains the following components designated as hazardous, toxic, or flammable air pollutants under Section 112 of the CAA: NONE
California Proposition 65	This material contains the following components which are known to the State of California to cause cancer, birth defects, or other reproductive harm: Polynuclear Aromatic Hydrocarbons (4-6 member condensed rings).
New Jersey Right-To-Know	For New Jersey RTK labeling requirements refer to components listed in Section 3.

SECTION 16: Other information

Indication of changes	: None
Date of issue	: 06/07/2017
Data sources	: SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

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