

## Material Safety Data Sheet



### Section 1 - Product and Company Identification

**Material Name** • RC70 Cutback Blend Asphalt  
**Chemical Category** • Mixture  
**Product Code** • GAS-RC70  
**Product Description** • Black Asphalt/Solvent based liquid.  
**Product Use** • Road paving applications. Other industrial applications for sealing and waterproofing.  
**Synonyms** • Cutback Asphalt; Rapid Cure Asphalt; Cutback Blend  
**Manufacturer** • Gardner-Gibson  
4161 E. 7th Avenue  
Tampa, FL 33605  
United States  
www.Gardner-Gibson.com  
Please use "Contact Us" form on the website

#### Telephone

**Technical** • 813-248-2101 - Customer Service: 8 AM - 5 PM M-F Eastern Standard Time

**Emergency** • 800-424-9300 - CHEMTREC

**Emergency** • 703-527-3887 - CHEMTREC (Outside US)

**Preparation Date** • 4/18/2012

**Last Revision Date** • 5/4/2012

### Section 2 - Hazards Identification

#### Emergency Overview

##### CAUTION

*Combustible liquid. May be harmful if inhaled. Harmful if swallowed. Causes mild skin irritation. Causes eye irritation.*

**Prevention** Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, gas, mist, vapors and/or spray. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. Wear protective gloves-Neoprene or Nitrile, clothing -that covers the skin, and eye/face protection -Safety Glasses, . Keep out of reach of children.

**Response** IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

**Storage/Disposal** Store in a closed container. Store in a well-ventilated place. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



CAUTION! COMBUSTIBLE LIQUID. Central nervous system depressant. Vapor may cause light-headedness, headache, nausea, loss of coordination and respiratory tract irritation. May cause skin irritation.

- Physical Form** • Liquid
- Color** • Black
- Odor** • Mild Hydrocarbon.
- Flash Point** • 105°F(40.5°C) CC (Closed Cup)
- OSHA** • Combustible Liquid, Irritant, Carcinogen
- WHMIS** • Combustible Liquids - B3, Other Toxic Effects - D2A  
R65, R36/37/38, R45
- GHS** • Flammable Liquids - Category 3, Specific Target Organ Toxicity Single Exposure - Category 3:  
Respiratory Tract Irritation, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye  
Irritation - Category 2, Carcinogenicity - Category 1A

### Potential Health Effects

#### Inhalation

- Acute (Immediate)** • May cause irritation. Excessive breathing of high vapor concentration can cause possible unconsciousness and even asphyxiation.
- Chronic (Delayed)** • Refer to other information found in Section 11-Toxicology.

#### Skin

- Acute (Immediate)** • May cause irritation.
- Chronic (Delayed)** • Repeated and prolonged exposure may be harmful. Repeated and prolonged exposure may cause dermatitis.

#### Eye

- Acute (Immediate)** • May cause irritation. May cause burning and redness or swelling of the eyes.
- Chronic (Delayed)** • Repeated and prolonged exposure may cause irritation.

#### Ingestion

- Acute (Immediate)** • May be harmful or fatal if swallowed.
- Chronic (Delayed)** • Repeated and prolonged exposure may be harmful.

- Carcinogenic Effects** • This product or one of its ingredients present at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA. See Section 11 - Toxicological Information for more details.

Carcinogenic Effects			
	CAS	IARC	NTP
Asphalt	8052-42-4	Group 2B-Possible Carcinogen Group 3-Not Classifiable	Under Consideration

## Section 3 - Composition/Information on Ingredients

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Asphalt	CAS:8052-42-4 UN:NA1999 EINECS:232-490-9	65% TO 85%	Ingestion/Oral-Rat LD50™ >5000 mg/kg Inhalation-Rat LC50™ >94.4 mg/m³	OSHA:Carc.; Irrit. WHMIS:Other Toxic Effects - D2A UN GHS:Carc. 2; Eye Irrit. 2A; Skin Irrit. 2	
mineral spirits	CAS:8052-41-3 EINECS:232-489-3	15% TO 30%		EU DSD/DPD:Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65	
1,2,4-Trimethylbenzene	CAS:95-63-6 EC Number:202-436-9 EINECS:202-	0.5% TO 1.5%	Ingestion/Oral-Rat LD50™ 5 g/kg Inhalation-Rat LC50™ 18000 mg/m³ 4 Hour(s)	OSHA:Comb. Liq.; Irrit. WHMIS:Comb. Liq. - B3 UN GHS:Acute Tox. 4 (Inhalation); Aquatic Chronic 2; Flam. Liq. 3; Eye Irrit. 2A; Skin Irrit. 2; STOT RE 2; STOT SE 2	

	436-9			
Benzene, 1,3,5-trimethyl	CAS:108-67-8 EC Number:203-604-4 UN:UN2325 EINECS:203-604-4	0.5% TO 1.5%		EU DSD/DPD:R10 Xi; R37 N; R51-53

## Section 4 - First Aid Measures

- Inhalation** • IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or poison control center.
- Skin** • Rinse skin immediately with plenty of water for 15-20 minutes. Remove contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention. Wash clothing before reuse.
- Eye** • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion** • If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## Section 5 - Fire Fighting Measures

- Extinguishing Media** • LARGE FIRE: Water spray, fog or regular foam.  
SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable Extinguishing Media** • Do not use direct stream of water.
- Firefighting Procedures** • Fight advanced or massive fires from safe distance or protected location. Avoid water in a straight hose stream as the stream will cause splatter and spread fire. If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
- Unusual Fire and Explosion Hazards** • Combustible liquid. Containers may explode when heated. May release irritating or toxic gases, fumes, or vapors.
- Hazardous Combustion Products** • Carbon monoxide, carbon dioxide, hydrocarbons. Sulfur Oxides, Nitrogen Oxides, Hydrogen Sulfide.
- Protection of Firefighters** • Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
- Flash Point** • 105°F(40.5°C) CC (Closed Cup)
- Explosion Limits** • •
- Upper** • 6 %
- Lower** • .9 %
- Autoignition Temperature** • 450°F(232.2°C)

## Section 6 - Accidental Release Measures

- Personal Precautions** • Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation to remove vapors, fumes, dust etc. Stay upwind.
- Emergency Procedures** • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE

should be removed from the area until the spill is cleaned up. Ventilate closed spaces before entering.

**Environmental Precautions**

- Prevent entry into waterways, sewers, basements or confined areas. Prevent spreading of vapors through sewers, ventilation systems and confined areas.

**Containment/Clean-up Measures**

- Contain and recover liquid when possible. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not use water to flush spill area. Use only non-sparking tools. Use appropriate Personal Protective Equipment (PPE)

**Prohibited Materials**

- Avoid contact with strong oxidizing agents or bases.

**Section 7 - Handling and Storage**

**Handling**

- KEEP OUT OF THE REACH OF CHILDREN! Keep away from heat, sparks, and flame – No Smoking. Keep containers tightly closed when not in use. Do not use in areas without adequate ventilation. Take precautionary measures against static discharge. Use only non-sparking tools.

**Storage**

- Store in a well-ventilated place. Keep container tightly closed. Keep away from incompatible materials. Keep away from sources of ignition – No Smoking. It is recommended not to heat this material to temperatures above the product flashpoint. All equipment used when handling the product must be grounded.

**Special Packaging Materials**

- Not Applicable.

**Incompatible Materials or Ignition Sources**

- Avoid contact with strong oxidizing agents and acids.

**Section 8 - Exposure Controls/Personal Protection**

**Personal Protective Equipment**

**Pictograms**



**Respiratory**

- If listed exposure limits are expected to be exceeded, use approved respiratory protection suitable for the hazard. In case of insufficient ventilation, wear suitable respiratory equipment.

**Eye/Face**

- Wear ANSI approved safety glasses with side shields or safety goggles. If splash potential exists, wear full face shield and chemical goggles.

**Hands**

- Wear chemical protective gloves made of Nitrile or Neoprene.

**Skin/Body**

- Wear clothing that covers the skin to prevent skin exposure.

**General Industrial Hygiene Considerations**

- Avoid contact with skin and eyes. Avoid breathing vapors. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

**Engineering Measures/Controls**

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use precaution to protect building intake from fumes and vapors created outdoors.

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California
mineral spirits (8052-41-3)	TWAs	100 ppm TWA	525 mg/m3 TWA (140°C Flash aliphatic solvent)	100 ppm TWA LMPE-PPT; 523 mg/m3 TWA LMPE-PPT	500 ppm TWA; 2900 mg/m3 TWA	100 ppm PEL; 525 mg/m3 PEL
Asphalt (8052-42-4)	TWAs	0.5 mg/m3 TWA (fume, inhalable fraction, as benzene soluble aerosol)	0.5 mg/m3 TWA (fume, inhalable, as Benzene-soluble aerosol)	5 mg/m3 TWA LMPE-PPT	Not established	5 mg/m3 PEL (fume)

**Exposure Control Notations**

**ACGIH**

Asphalt (8052-42-4): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free))

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)  
 TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Black Liquid.
Color	Black	Odor	Mild Hydrocarbon.
Odor Threshold	No data available	Physical and Chemical Properties	Liquid
General Properties			
Boiling Point	315 to 550 F(157.2 to 287.7°C)	Melting Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	No data available	Specific Gravity/Relative Density	0.91 to 1.0186 Water=1
Density	7.5 to 8 lbs/gal	Bulk Density	No data available
Water Solubility	No data available	Solvent Solubility	No data available
Viscosity	1800 Poise (P, Ps) or dyne-second/cm <sup>2</sup> @ 140 F(60 C)		
Volatility			
Vapor Pressure	2 mmHg (torr) @ 68 F(20 C)	Vapor Density	4.9 Air=1
VOC (Vol.)	< 250 g/L	Volatiles (Wt.)	No data available
Volatiles (Vol.)	No data available		
Flammability			
Flash Point	105°F(40.5°C) CC (Closed Cup)	UEL	6 %
LEL	.9 %	Autoignition	450°F(232.2°C)

## Section 10 - Stability and Reactivity

- Stability**
- Stable under normal temperatures and pressures.
- Hazardous Polymerization**
- Hazardous polymerization not indicated.
- Conditions to Avoid**
- Avoid contact with strong oxidizing agents and flame. Excess heat. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
- Incompatible Materials**
- Strong oxidizers and acids.
- Hazardous Decomposition Products**
- Carbon monoxide, carbon dioxide and hydrocarbons.

## Section 11 - Toxicological Information

Component Name	CAS	Data
Asphalt (65% TO 85%)	8052-42-4	<b>Acute Toxicity:</b> ori-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3; <b>Mutagen:</b> dna-mus-skn 600 mg/kg; <b>Tumorigen/Carcinogen:</b> skn-mus TDLo:905 gm/kg/2Y-I
mineral spirits (15% TO 30%)	8052-41-3	<b>Acute Toxicity:</b> ori-rat LD :>5 gm/kg; ihl-rat LC50:>1400 ppm/8H; skn-rbt TDLo:2 gm/kg/4W-I; <b>Irritation:</b> eye-hmn 100 ppm MLD; eye-rbt 500 mg/24H MOD
1,2,4-Trimethylbenzene (0.5% TO 1.5%)	95-63-6	<b>Acute Toxicity:</b> ori-rat LD50:5 gm/kg; ihl-rat LC50:18000 mg/m3/4H
Benzene, 1,3,5-trimethyl (0.5% TO	108-67-8	<b>Acute Toxicity:</b> ori-rat LD50:5000 mg/kg; ihl-rat TCLo:100 ppm/6H/20D-I;

1.5%)		<b>Irritation:</b> eye-rbt 500 mg/24H MLD; skn-rbt 20 mg/24H MOD
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**Other Information** • This product contains petroleum asphalt. Petroleum asphalt is not listed as a carcinogen by OSHA or NTP. The National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes. This product may contain small amounts of polycyclic aromatic hydrocarbons (PAH's) which are recognized carcinogens in humans and experimental animals. Mouse skin painting studies of roofing asphalt vapor concentrate have shown evidence of tumor formation associated with localized skin irritation in recent studies. Inhalation studies of high airborne concentrations of asphalt/bitumen fumes in rats and mice produced bronchitis, pneumonitis, and lung changes such as fibrosis and cell damage.

## Section 12 - Ecological Information

Component	CAS	Data	Comments
1,2,4-Trimethylbenzene (0.5% TO 1.5%)	95-63-6	<b>Fish:</b> 96 Hour(s) LC50 Fish 7.19-8.28 mg/L	

**Ecological Fate** • No data available.

**Persistence/Degradability** • No data available.

**Bioaccumulation Potential** • No data available.

**Mobility in Soil** • No data available.

## Section 13 - Disposal Considerations

**Product** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transportation Information

DOT: Not restricted if shipped in containers <450L (119 gallons) Restricted if shipped in containers >450L (119 gallons)

### DOT - United States - Department of Transportation

**Shipping Name:** Tars, liquid,  
**ID Number:** UN1999  
**Hazard Class:** 3  
**Labeling Class:** 3  
**Packing Group:** III

### TDG - Canada - Transport of Dangerous Goods

**Shipping Name:** Tars liquid  
**ID Number:** UN 1999  
**Hazard Class:** 3  
**Labeling Class:** 3  
**Packing Group:** III

### IMO/IMDG - International Maritime Transport

**Shipping Name:** Tars, Liquid  
**ID Number:** UN1999  
**Hazard Class:** 3  
**Labeling Class:** 3  
**Packing Group:** III

## Section 15 - Regulatory Information

**SARA Hazard Classifications** • Acute, Chronic

**Risk & Safety Phrases** • California PROP 65: Asphalt and Asphalt Fumes may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm.

State Right To Know				
Component	CAS	MA	NJ	PA
Asphalt	8052-42-4	Yes	Yes	Yes
mineral spirits	8052-41-3	Yes	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes	Yes
Benzene, 1,3,5-trimethyl	108-67-8	Yes	No	No

  

Inventory			
Component	CAS	EU EINECS	TSCA
Asphalt	8052-42-4	Yes	Yes
mineral spirits	8052-41-3	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes
Benzene, 1,3,5-trimethyl	108-67-8	Yes	Yes

## Labor

### Canada - WHMIS - Classifications of Substances

- Asphalt 8052-42-4 65% TO 85% Not Listed
- 1,2,4-Trimethylbenzene 95-63-6 0.5% TO 1.5% B3
- mineral spirits 8052-41-3 15% TO 30% B3, D2B
- Benzene, 1,3,5-trimethyl 108-67-8 0.5% TO 1.5% B3

## United States

### Environment

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- Asphalt 8052-42-4 65% TO 85% Not Listed
- 1,2,4-Trimethylbenzene 95-63-6 0.5% TO 1.5% 1.0 % de minimis concentration
- mineral spirits 8052-41-3 15% TO 30% Not Listed
- Benzene, 1,3,5-trimethyl 108-67-8 0.5% TO 1.5% Not Listed

## United States - California

### Environment

#### U.S. - California - Proposition 65 - Carcinogens List

- Asphalt 8052-42-4 65% TO 85% Not Listed
- 1,2,4-Trimethylbenzene 95-63-6 0.5% TO 1.5% Not Listed
- mineral spirits 8052-41-3 15% TO 30% Not Listed
- Benzene, 1,3,5-trimethyl 108-67-8 0.5% TO 1.5% Not Listed

## Section 16 - Other Information

### Prepared By

- GG Inc.

### Preparation Date

- 4/18/2012

### Last Revision Date

- 5/4/2012

### Disclaimer/Statement of Liability

- This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to verify the suitability and completeness of such information for particular use. Gardner-Gibson does not accept liability for any loss or damage that may occur from the use of this information.

### NFPA:

