SAFETY DATA SHEET

1. Identification

Product identifier RC Cutback Asphalt

Other means of identification

SDS number 213-GHS

Synonyms Rapid Cure Asphalt, RC Asphalt, Cutback Asphalt, RC-250, RC-800, RC-3000, Road Asphalt,

Bitumen, Road Oil

See section 16 for complete information.

Recommended use Asphalt products are to be used as road and highway paving applications; waterproofing and

> sealing applications; coatings; or other engineering applications. Use in other applications may result in higher exposures and require additional engineering controls and personal protective

equipment.

None known. **Recommended restrictions**

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Valero Marketing & Supply Company and Affiliates

One Valero Way

San Antonio, TX 78269-6000

210-345-4593 **General Assistance**

E-Mail CorpHSE@valero.com **Contact Person** Industrial Hygienist

Emergency Telephone 24 Hour Emergency 866-565-5220

1-800-424-9300 (CHEMTREC USA)

2. Hazard(s) identification

Physical hazards Flammable liquids Category 1 Skin corrosion/irritation Health hazards Category 2 Germ cell mutagenicity Category 1B Carcinogenicity

Category 1B Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable liquid and vapor. Causes skin irritation. May cause genetic defects. May

cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or

Category 2

dizziness. May be fatal if swallowed and enters airways.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Response

If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If

swallowed: Immediately call a poison center/doctor. Do not induce vomiting.

Storage Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Asphalt	8052-42-4	70 - 90	
Naphtha (petroleum), heavy straight-run	64741-41-9	10 - 30	
Sulfur	7704-34-9	<1	
Xylene	1330-20-7	<1	
Toluene	108-88-3	<0.6	
Naphthalene	91-20-3	<0.5	
Benzene	71-43-2	<0.2	
Hydrogen sulfide	7783-06-4	<0.1	
Polycyclic Aromatic Hydrocarbons	130498-29-2	<0.1	

Composition comments

Dangerous amounts of hydrogen sulfide, a highly toxic gas, may be present, especially in the headspace of containers.

4. First-aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get

medical attention.

Skin contact Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water.

Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs,

always seek medical attention.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. Get medical attention.

Ingestion Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not

give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is

having convulsions. Get medical attention immediately.

Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Most important symptoms/effects, acute and

Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice.

Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

Indication of immediate Symptoms may be delayed. medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use a solid water stream as it may scatter and spread fire.

General information

delayed

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

Vapor may cause flash fire. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Vapors may form explosive air mixtures even at room temperature. Prevent buildup of vapors or gases to explosive concentrations. Some of these materials, if spilled, may evaporate leaving a flammable residue. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

Specific methods

Use water spray to cool unopened containers.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Extinguish all flames in the vicinity. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Cover with plastic sheet to prevent spreading. Collect spillage. Following product recovery, flush area with water. Prevent product from entering drains. Do not allow material to contaminate ground water system. Clean surface thoroughly to remove residual contamination. Wipe up with absorbent material (e.g. cloth, fleece).

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. This material and its container must be disposed of as hazardous waste.

Environmental precautions

If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Flammable. Review Firefighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802. For highway or railways spills, contact Chemtrec at 1-800-424-9300.

7. Handling and storage

Precautions for safe handling

Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

Wear personal protective equipment. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Flammable liquid storage. Do not handle or store near an open flame or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	5 ppm	
	TWA	1 ppm	
JS. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
JS. OSHA Table Z-2 (29 CFR 1910.	1000)		
Components	Туре	Value	
Senzene (CAS 71-43-2)	Ceiling	25 ppm	
	TWA	10 ppm	
Hydrogen sulfide (CAS	Ceiling	20 ppm	
7783-06-4)			
Γoluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
JS. ACGIH Threshold Limit Values	;		
Components	Туре	Value	Form
Asphalt (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fraction.
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
lydrogen sulfide (CAS 783-06-4)	STEL	5 ppm	
	TWA	1 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
JS. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	Form
Asphalt (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
Benzene (CAS 71-43-2)	STEL	1 ppm	
- (TWA	0.1 ppm	
lydrogen sulfide (CAS 783-06-4)	Ceiling	15 mg/m3	
-		10 ppm	
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3	
•		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Benzene (CAS 71-43-2)	25 μg/g	S-Phenylmerca pturic acid	Creatinine in urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*

TWA

150 ppm

375 mg/m3 100 ppm

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ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
	0.02 mg/l	Toluene	Blood	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Benzene (CAS 71-43-2)

Can be absorbed through the skin.

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3) Skin designation applies.

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2)

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Skin protection

Hand protection
 Avoid exposure - obtain special instructions before use. Wear protective gloves. Protective gloves.
 Other
 Wear chemical-resistant, impervious gloves. Flame retardant protective clothing is recommended.

Respiratory protection Wear a NIOSH-approved (or equivalent) respirator as needed. **Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good

industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Dark brown to black liquid.

Physical state Liquid.

Form Viscous liquid at ambient temperatures.

Color Brown/black.

Odor Strong petroleum.

Odor threshold Not available.

pH Not available.

Melting point/freezing point > 134.96 °F (> 57.2 °C)

Initial boiling point and boiling

range

700 - 1100.1 °F (371.11 - 593.39 °C)

Flash point < 55.4 °F (< 13.0 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

> 0.9

Flammability limit - upper

< 7

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density > 1.6 (Air = 1)

Relative density 0.93 - 0.97 (Water=1)

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Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 399.99 - 700 °F (204.44 - 371.11 °C)

Decomposition temperature Not available. **Viscosity** Not available.

10. Stability and reactivity

Reactivity Not available.

Chemical stability Stable under normal temperature conditions and recommended use.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Flames and sparks. Ignition sources. Contact with incompatible materials. 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 oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion May be fatal if swallowed and enters airways.

In high concentrations, mists/vapors may irritate throat and respiratory system and cause

coughing. May cause drowsiness or dizziness.

Skin contact May cause skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to

discomfort and dermatitis.

Eye contact May cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation.

Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice.

Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test Results
Benzene (CAS 71-43-2)		
Acute		
Oral		
LD50	Rat	930 mg/kg
Hydrogen sulfide (CAS 7783-06-4		
Acute		
Inhalation		
LC50	Rat	> 0.38 mg/l, 960 Minutes
Naphthalene (CAS 91-20-3)		
Acute		
Dermal		
LD50	Rabbit	> 2 g/kg
Oral		
LD50	Rat	490 mg/kg
Toluene (CAS 108-88-3)		
Acute		
Inhalation		
LC50	Rat	8000 mg/l, 4 Hours

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Prepared by 3E Company

Components Species Test Results

Oral

LD50 Rat 2.6 g/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Respiratory sensitizationBased on available data, the classification criteria are not met. **Skin sensitization**Based on available data, the classification criteria are not met.

Germ cell mutagenicity In in-vitro experiments, neither benzene, toluene nor xylene changed the number of

sister-chromatid exchanges (SCEs) or the number of chromosomal aberrations in human lymphocytes. However, toluene and xylene caused a significant cell growth inhibition which was not observed with benzene in the same concentrations. In in-vivo experiments, toluene changed the number of sister-chromatid exchanges (SCEs) in human lymphocytes. Toluene may cause

heritable genetic damage.

Carcinogenicity May cause cancer.

Occupational exposure to straight-run asphalts and their emissions during road paving: 2B

Possibly carcinogenic to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Asphalt (CAS 8052-42-4) 2B Possibly carcinogenic to humans.

Benzene (CAS 71-43-2) 1 Carcinogenic to humans.

Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Benzene (CAS 71-43-2) Known To Be Human Carcinogen.

Naphthalene (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2) Cancer

Reproductive toxicity Benzene, xylene and toluene have demonstrated animal effects of reproductive toxicity. Animal

studies of benzene have shown testicular effects, alterations in reproductive cycles, chromosomal aberrations and embryo/fetotoxicity. May damage fertility or the unborn child. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Avoid exposure to women

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during early pregnancy. Avoid contact during pregnancy/while nursing.

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Contains polycyclic aromatic compounds which have been shown to cause anemia, disorders of

the liver, bone marrow and lymphoid tissues in rats following dermal application.

Further information Symptoms may be delayed.

12. Ecological information

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Components		Species	Test Results
Benzene (CAS 71-43-	2)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 mg/l, 48 Hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	5.9 mg/l, 96 hours
Hydrogen sulfide (CAS	S 7783-06-4)		
Aquatic			
Fish	LC50	Lake whitefish (Coregonus clupeaforn	nis) 0.002 mg/l, 96 hours
Naphthalene (CAS 91	-20-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours

Components Species Test Results

Fish LC50 Pink salmon (Oncorhynchus gorbuscha) 0.95 - 1.62 mg/l, 96 hours

Toluene (CAS 108-88-3)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 5.46 - 9.83 mg/l, 48 hours Fish LC50 Pink salmon (Oncorhynchus gorbuscha) 7.45 - 8.78 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Benzene (CAS 71-43-2) 2.13 Toluene (CAS 108-88-3) 2.73

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructionsDispose in accordance with all applicable regulations. This material and its container must be

disposed of as hazardous waste. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate

ponds, waterways or ditches with chemical or used container.

Hazardous waste code D001: Waste Flammable material with a flash point <140 °F

US RCRA Hazardous Waste U List: Reference

 Benzene (CAS 71-43-2)
 U019

 Hydrogen sulfide (CAS 7783-06-4)
 U135

 Naphthalene (CAS 91-20-3)
 U165

 Toluene (CAS 108-88-3)
 U220

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

14. Transport information

DOT

UN number UN1999

UN proper shipping name Asphalt, cutback

Transport hazard class(es)

Class 3
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 149, B13, IB2, T3, TP3, TP29

Yes

Packaging exceptions 173, 150
Packaging non bulk 173, 202
Packaging bulk 176, 242

IATA

UN number UN1999

UN proper shipping name Asphalt, cutback

Transport hazard class(es)

 Class
 3

 Subsidiary risk

 Label(s)
 3

 Packing group
 III

 Environmental hazards
 Yes

 ERG Code
 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1999

ASPHALT, CUTBACK **UN** proper shipping name

Transport hazard class(es)

3 Class Subsidiary risk Label(s) 3 Packing group Ш

Environmental hazards

Marine pollutant Yes F-E, S-E **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2) Cancer

Central nervous system

Blood Aspiration Skin Eye

Respiratory tract irritation

Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

Asphalt (CAS 8052-42-4) LISTED Benzene (CAS 71-43-2) LISTED Hydrogen sulfide (CAS 7783-06-4) LISTED Naphthalene (CAS 91-20-3) LISTED Toluene (CAS 108-88-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes Hazard categories

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Hydrogen sulfide	7783-06-4	100	500 lbs		

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Naphthalene	91-20-3	<0.5	
Benzene	71-43-2	<0.2	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Benzene (CAS 71-43-2) Naphthalene (CAS 91-20-3)

Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)

Toluene (CAS 108-88-3)

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Hydrogen sulfide (CAS 7783-06-4)

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and

Chemical Code Number

Toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 % weight/volumn

DEA Exempt Chemical Mixtures Code Number

Toluene (CAS 108-88-3) 594

US state regulations

WARNING: This product contains chemicals known to the State of California to cause cancer and

birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Asphalt (CAS 8052-42-4) Benzene (CAS 71-43-2)

Hydrogen sulfide (CAS 7783-06-4) Naphthalene (CAS 91-20-3) Toluene (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act

Asphalt (CAS 8052-42-4) Benzene (CAS 71-43-2)

Hydrogen sulfide (CAS 7783-06-4)

Naphthalene (CAS 91-20-3)

Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)

Toluene (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Asphalt (CAS 8052-42-4)

Benzene (CAS 71-43-2)

Hydrogen sulfide (CAS 7783-06-4)

Naphthalene (CAS 91-20-3)

Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)

Toluene (CAS 108-88-3)

US. Rhode Island RTK

Benzene (CAS 71-43-2)

Hydrogen sulfide (CAS 7783-06-4)

Naphthalene (CAS 91-20-3)

Toluene (CAS 108-88-3)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Asphalt (CAS 8052-42-4) Benzene (CAS 71-43-2) Naphthalene (CAS 91-20-3) Toluene (CAS 108-88-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

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United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

27-June-2013 Issue date **Revision date** 05-May-2014

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NFPA Ratings



ACGIH References

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC Monographs, Overall Evaluation of Carcinogenicity

HSDB® - Hazardous Substances Data Bank

National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

This material Safety Data Sheet (SDS) was prepared in accordance with 29 CFR 1910.1200 by Disclaimer

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RC Cutback Asphalt

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