Valero

SAFETY DATA SHEET

1. Identification

Product identifier SC Cutback Asphalt

Other means of identification

SDS number 210-GHS

Synonyms FCC Feedstock, SC-45, SC-70, SC-250, SC-600, SC-800, SC-3000, Slow Cure Asphalt, Cutback

Asphalt, Road Asphalt, Road Oil

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.

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Valero Marketing & Supply Company and Affiliates

One Valero Way

San Antonio, TX 78269-6000

General Assistance 210-345-4593

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 hazardsFlammable liquidsCategory 3Health hazardsAcute toxicity, inhalationCategory 4

Skin corrosion/irritation Category 2
Germ cell mutagenicity Category 1B
Carcinogenicity Category 1A
Reproductive toxicity Category 2

Specific target organ toxicity, repeated Category 2 (Central Nervous System)

exposure

Aspiration hazard Category 1
Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

- - - t- -- - - - - - - -

Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements

Environmental hazards



Signal word Danger

Hazard statement Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation.

Harmful if inhaled. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs (Central Nervous System) through prolonged or

repeated exposure. Toxic to aquatic life with long lasting effects.

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Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Asphalt	8052-42-4	0 - 100	
Gas oil	64741-44-2	20 - 60	
Kerosine (Petroleum)	8008-20-6	2 - 10	
Naphthalene	91-20-3	0 - 3	
Nonane	111-84-2	0 - 3	
Heptane	142-82-5	0 - 2	
Hexane (Other Isomers)	Mixture	0 - 2	
Octane	111-65-9	0 - 2	
n-Hexane	110-54-3	0 - 2	
Ethylbenzene	100-41-4		
Hydrogen sulfide	7783-06-4		
Toluene	108-88-3	<0.5	
Xylene	1330-20-7	<0.5	
Benzene	71-43-2	<0.3	
Polycyclic Aromatic Hydrocarbons	130498-29-2		

Composition comments

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

Note: Component ranges represent multiple product grades (see Synonyms - Section 1). Actual concentrations may be substantially less than the maxium values shown or zero, depending on the product grade or specifications.

4. First-aid measures

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if discomfort develops or persists.

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.

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Eye contact

Ingestion

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

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

Most important symptoms/effects, acute and delayed

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.

Indication of immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

General information

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.

Specific hazards arising from the chemical

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

Special protective equipment and precautions for firefighters

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

Fire fighting equipment/instructions

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 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.

Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.

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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.

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8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	5 ppm	
	TWA	1 ppm	
US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
		100 ppm	
Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
Octane (CAS 111-65-9)	PEL	2350 mg/m3	
		500 ppm	
US. OSHA Table Z-2 (29 CFR 1910.	1000)		
Components	Туре	Value	
Benzene (CAS 71-43-2)	Ceiling	25 ppm	
	TWA	10 ppm	
Hydrogen sulfide (CAS 7783-06-4)	Ceiling	20 ppm	

IS. ACGIH Threshold Limit Values Components	Туре	Value	Form
sphalt (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fume.
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Ethylbenzene (CAS 00-41-4)	TWA	20 ppm	
leptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
lexane (Other Isomers)	STEL	1000 ppm	
	TWA	500 ppm	
lydrogen sulfide (CAS 783-06-4)	STEL	5 ppm	
	TWA	1 ppm	
Cerosine (Petroleum) (CAS 008-20-6)	TWA	200 mg/m3	Non-aerosol.
laphthalene (CAS 91-20-3)	TWA	10 ppm	
-Hexane (CAS 110-54-3)	TWA	50 ppm	
Ionane (CAS 111-84-2)	TWA	200 ppm	
Octane (CAS 111-65-9)	TWA	300 ppm	
JS. NIOSH: Pocket Guide to Chemical			F 2 ****
Components	Туре	Value	Form
sphalt (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
senzene (CAS 71-43-2)	STEL	1 ppm	
	TWA	0.1 ppm	
thylbenzene (CAS 00-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
leptane (CAS 142-82-5)	Ceiling	1800 mg/m3	
		440 ppm	
	TWA	350 mg/m3	
		85 ppm	
lexane (Other Isomers)	Ceiling	1800 mg/m3	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
lydrogen sulfide (CAS 783-06-4)	Ceiling	15 mg/m3	
		10 ppm	
Gerosine (Petroleum) (CAS 008-20-6)	TWA	100 mg/m3	
laphthalene (CAS 91-20-3)	STEL	75 mg/m3	
		15 ppm	
	TWA	50 mg/m3	
	1 4 4 7 1		
		10 ppm	
-Hexane (CAS 110-54-3)	TWA	10 ppm 180 mg/m3	
-Hexane (CAS 110-54-3)			

US. NIOSH: Pocket Guide to Che Components	Туре	Value Form	
		200 ppm	
Octane (CAS 111-65-9)	Ceiling	1800 mg/m3	
		385 ppm	
	TWA	350 mg/m3	
		75 ppm	

Biological limit values

ACGIR

Components	Value	Determinant	Specimen	Sampling Time	
Benzene (CAS 71-43-2)	500 μg/g	t,t-Muconic acid	Creatinine in urine	*	
ACGIH Biological Exposu	ıre Indices				
Components	Value	Determinant	Specimen	Sampling Time	
Benzene (CAS 71-43-2)	25 μg/g	S-Phenylmerca pturic acid	Creatinine in urine	*	
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*	
Naphthalene (CAS 91-20-3	i) 2.5 μg/l	1-Hydroxypyre ne, with hydrolysis (1-HP)	Urine	*	
n-Hexane (CAS 110-54-3)	0.5 mg/l	2,5-Hexanedio ne, without hydrolysis	Urine	*	
Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)	2.5 μg/l	1-Hydroxypyre ne, with hydrolysis (1-HP)	Urine	*	

^{* -} 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.

Naphthalene (CAS 91-20-3)

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2)

Kerosine (Petroleum) (CAS 8008-20-6)

Naphthalene (CAS 91-20-3)

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

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.

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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.

Skin protection

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.

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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

Dark brown to black liquid. **Appearance**

Physical state Liquid.

Form Viscous liquid at ambient temperatures.

Color Brown/black. Strong petroleum. Odor **Odor threshold** Not available. рH Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

500 - 600.1 °F (260 - 315.6 °C)

range

119.8 - 300.0 °F (48.8 - 148.9 °C) Closed Cup Flash point

< 7

Evaporation rate Not available. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Vapor pressure Not available. Vapor density > 1.6 (Air = 1)

Relative density 0.96 - 1.01 (Water=1)

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

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

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

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

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.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Harmful if inhaled. In high concentrations, vapors and spray mists are narcotic and may cause Inhalation

headache, fatigue, dizziness and nausea.

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

discomfort and dermatitis.

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Eye contact May cause eye irritation.

Ingestion May be fatal if swallowed and enters airways.

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 Harmful if inhaled.

Product Species Test Results

SC Cutback Asphalt (CAS Mixture)

Acute Inhalation

LC50 Monkey 434.5127250155183925 mg/l, 35 Minutes

estimated

Components Species Test Results

Benzene (CAS 71-43-2)

Acute Oral

LD50 Rat 930 mg/kg

Naphthalene (CAS 91-20-3)

Acute Dermal

LD50 Rabbit > 2 g/kg

Oral

LD50 Rat 490 mg/kg

n-Hexane (CAS 110-54-3)

Acute Oral

LD50 Rat 28710 mg/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

May cause genetic defects. In in-vitro experiments benzene did not change the number of

sister-chromatid exchanges (SCEs) or the number of chromosomal aberrations in human

lymphocytes.

Carcinogenicity Suspected of causing 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.

Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

Gas oil (CAS 64741-44-2) 3 Not classifiable as to carcinogenicity to humans.

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

NTP Report on Carcinogens

Benzene (CAS 71-43-2) Known To Be Human Carcinogen. Naphthalene (CAS 91-20-3) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Benzene (CAS 71-43-2) Cancer

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Suspected of damaging fertility or the unborn child. Animal studies of benzene have shown Reproductive toxicity

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 during early

May cause damage to the following organs through prolonged or repeated exposure: Lungs.

pregnancy. Avoid contact during pregnancy/while nursing.

Specific target organ toxicity -

single exposure

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

Specific target organ toxicity -

repeated exposure

May be fatal if swallowed and enters airways.

Aspiration hazard **Chronic effects**

Prolonged and repeated exposure to benzene may cause serious injury to blood forming organs and is associated with anemia and to the later development of acute myelogenous leukemia (AML). Danger of serious damage to health by prolonged exposure. Prolonged or repeated overexposure may cause central nervous system, kidney, liver, and lung damage.

Further information

Symptoms may be delayed. Components of the product may be absorbed into the body through

the skin.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Ethylbenzene (CAS 100-41-4	1)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	1.81 - 2.38 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.2 mg/l, 96 hours
Chronic			
Crustacea	EC50	Ceriodaphnia dubia	3.6 mg/l, 7 days
Naphthalene (CAS 91-20-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	0.95 - 1.62 mg/l, 96 hours
Octane (CAS 111-65-9)			
Aquatic			
Crustacea	LC50	Daphnia magna	0.38 mg/l, 48 hours
sistence and degradability	None known.		
accumulative potential	Not available.		
Partition coefficient n-octa	nol / water (log h	(ow)	
Benzene (CAS 71-43-2)		2.13	
Ethylbenzene (CAS 100-41-4	4)	3.15	
Nonane (CAS 111-84-2) Octane (CAS 111-65-9)		5.46 5.18	

Mobility in soil Not available.

The product contains volatile organic compounds which have a photochemical ozone creation Other adverse effects

potential.

13. Disposal considerations

Dispose in accordance with all applicable regulations. This material and its container must be **Disposal instructions**

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 The waste code should be assigned in discussion between the user, the producer and the waste

disposal company. D001: Waste Flammable material with a flash point <140 °F

D018: Waste Benzene

Waste from residues / unused

products

Dispose of in accordance with local regulations.

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Contaminated packaging Offer rinsed packaging material to local recycling facilities.

14. Transport information

DOT

UN number UN3256

UN proper shipping name Elevated temperature liquid, flammable, n.o.s. (Cutback Asphalt)

Transport hazard class(es)

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

Environmental hazards

Marine pollutant Yes

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

Special provisions IB1, T3, TP3, TP29

Packaging exceptions None
Packaging non bulk None
Packaging bulk 247

IATA

UN number UN3256

UN proper shipping name Elevated temperature liquid, flammable, n.o.s. (Cutback Asphalt)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group Environmental hazards Yes
ERG Code 3L

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

IMDG

UN number UN3256

UN proper shipping name Transport hazard class(es)

ame ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. (Cutback Asphalt)

Class 3
Subsidiary risk Packing group III

Environmental hazards

Marine pollutant Yes
EmS F-E, S-D

EmS F-E, S-D

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

General information Shipping descriptions in this section are offered as examples only. Classification for transport must

accurately reflect the material hazards as designated under a variety of regulations and is solely

the responsibility of the person offering the material into transport for commerce.

15. Regulatory information

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

Standard, 29 CFR 1910.1200.

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

Nonane (CAS 111-84-2) 1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

Benzene (CAS 71-43-2) Ethylbenzene Listed. (CAS 100-41-4) Heptane (CAS Listed. 142-82-5) Listed. Listed. Hexane (Other Isomers) (CAS Mixture) Hydrogen sulfide (CAS 7783-06-4) Listed. Naphthalene (CAS 91-20-3) Listed. n-Hexane (CAS 110-54-3) Listed. Nonane (CAS 111-84-2) Listed.

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Octane (CAS 111-65-9) Listed.

SARA 304 Emergency release notification

HYDROGEN SULFIDE (CAS 7783-06-4) 100 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Benzene (CAS 71-43-2) Cancer

Central nervous system

Blood Aspiration Skin Eye

respiratory tract irritation

Flammability

All components of the mixture on the TSCA 8(b) inventory are designated **Toxic Substances Control Act (TSCA)**

"active".

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

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

SARA 311/312 Hazardous

Yes

Classified hazard

chemical

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure) categories

Skin corrosion or irritation Germ cell mutagenicity Carcinogenicity Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Benzene	71-43-2	<0.3	
Ethylbenzene	100-41-4	<0.5	
Naphthalene	91-20-3	0 - 3	
n-Hexane	110-54-3	0 - 2	
Polycyclic Aromatic Hydrocarbons	130498-29-2	<0.1	

Other federal regulations

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

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Naphthalene (CAS 91-20-3) n-Hexane (CAS 110-54-3)

Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)

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)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Hydrogen sulfide (CAS 7783-06-4) High priority

US state regulations

US. Massachusetts RTK - Substance List

Asphalt (CAS 8052-42-4) Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Heptane (CAS 142-82-5)

Hexane (Other Isomers) (CAS Mixture) Hydrogen sulfide (CAS 7783-06-4) Kerosine (Petroleum) (CAS 8008-20-6)

SC Cutback Asphalt

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Naphthalene (CAS 91-20-3)

n-Hexane (CAS 110-54-3)

Nonane (CAS 111-84-2)

Octane (CAS 111-65-9)

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

Asphalt (CAS 8052-42-4)

Benzene (CAS 71-43-2)

Ethylbenzene (CAS 100-41-4)

Heptane (CAS 142-82-5)

Hydrogen sulfide (CAS 7783-06-4)

Kerosine (Petroleum) (CAS 8008-20-6)

Naphthalene (CAS 91-20-3)

n-Hexane (CAS 110-54-3)

Nonane (CAS 111-84-2)

Octane (CAS 111-65-9)

Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)

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

Asphalt (CAS 8052-42-4)

Benzene (CAS 71-43-2)

Ethylbenzene (CAS 100-41-4)

Heptane (CAS 142-82-5)

Hexane (Other Isomers) (CAS Mixture)

Hvdrogen sulfide (CAS 7783-06-4)

Kerosine (Petroleum) (CAS 8008-20-6)

Naphthalene (CAS 91-20-3)

n-Hexane (CAS 110-54-3)

Nonane (CAS 111-84-2)

Octane (CAS 111-65-9)

Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)

US. Rhode Island RTK

Asphalt (CAS 8052-42-4)

Benzene (CAS 71-43-2)

Ethylbenzene (CAS 100-41-4)

Heptane (CAS 142-82-5)

Hydrogen sulfide (CAS 7783-06-4)

Kerosine (Petroleum) (CAS 8008-20-6)

Naphthalene (CAS 91-20-3)

n-Hexane (CAS 110-54-3)

Nonane (CAS 111-84-2)

Octane (CAS 111-65-9)

California Proposition 65



WARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2) Listed: February 27, 1987 Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004 Naphthalene (CAS 91-20-3) Listed: April 19, 2002

California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997 Toluene (CAS 108-88-3) Listed: January 1, 1991

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997 n-Hexane (CAS 110-54-3) Listed: December 15, 2017

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Benzene (CAS 71-43-2)

Ethylbenzene (CAS 100-41-4)

Heptane (CAS 142-82-5)

Hydrogen sulfide (CAS 7783-06-4)

Kerosine (Petroleum) (CAS 8008-20-6)

Naphthalene (CAS 91-20-3)

n-Hexane (CAS 110-54-3)

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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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

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

Issue date 27-June-2013 **Revision date** 10-January-2020

Version # 03

NFPA ratings



Disclaimer

The information in this Safety Data Sheet (SDS) was obtained from sources believed to be reliable and accurate, and is not represented as being absolutely complete. The end user of this product has the responsibility for evaluating the adequacy of the data for the intended application and conditions of use; for determining the safety, toxicity, regulatory requirements, and suitability of the product under these conditions; and for obtaining additional or clarifying data where uncertainty exists. The data serves as general guidance when used in combination with professional judgement of persons experienced in a specific application, use or process; and additional data may be required. Valero Marketing & Supply Co., (Valero) provides this data without any warranty, expressed or implied regarding its correctness or accuracy; and does not assume any liability arising out of product handling, storage, use or disposal by others.

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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).