Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



SECTION 1: IDENTIFICATION

Product identifier
Product name
CAS No.

Other means of identification

Asphalt 8052-42-4

Asphalt Cement (ACs); Asphalt Flux; Penetration Grade Asphalts (Pen); Roofing Flux; Recycling Agents (RAs); PG46-28; Performance Graded Asphalt Binder; PG46-34; PG 52-16; PG 52-22; PG52-28; PG52-34; PG 58-16; PG58-22; PG58-28; PG58-34;PG 64-16; PG64-22; PG64-28; PG 64-28P; PG64-34PM; PG67-22; PG70-22; PG76-22; PG 58H-28; PG 64H-22; PG 67H-22; PG 58V-28; PG 64V-22; PG 67V-22; PG 58E-28; PG 64E-22; PG 67E-22; Asphalt, PG76-22; 0-10 Pen; 10-20 Pen; 30-40 Pen; 20-40 Pen; 50-60 Pen; 60-70 Pen; 50-70 Pen; 85-100 Pen; 120-150 Pen; 150-200 Pen; 150-220 Pen; 200+ Pen; AC-30; AC-20; AC-10; AC-5; Hard Pen Asphalt; Vacuum Tower Bottoms; VTB; VB;

Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses advised against

Road Building & Other Service Anything other than the above.

Details of the supplier of the safety data sheet Supplier

Telephone Fax E-mail (competent person)

Emergency telephone number Emergency Phone No. Vitol Inc. 2925 Richmond Ave, 11th Floor Houston, TX 77098 (713) 230-1000 713-230-1185 SDSHOU@vitol.com

Chemtrec: US/Canada: 1-800-424-9300 (24h) Mexico: 800 681 9531 (24h)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards Health hazards

Environmental hazards

Label elements Hazard Pictogram(s) Not classified as hazardous for supply/use. Skin Corrosion/Irritation, Category 2 Skin Sensitisation, Category 1A Eye Irritation, Category 2A Carcinogencity, Category 2 Hazardous to the aquatic environment, Acute, Category 3



WARNING

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer.

Signal Word(s)

Hazard Statement(s)

Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



Harmful to aquatic life.

Precautionary Statement(s)	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to environment Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents in accordance with local, state or national legislation.
Other hazards	None known
Percent of the mixture consists of ingredient(s) of unknown acute toxicity:	0% of the mixture consists of ingredients of unknown acute inhalated toxicity. 0% of the mixture consists of ingredients of unknown acute oral toxicity. 0% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Classification: OSHA HCS (29 CFR 1910.1200)

Chemical identity of the substance	%W/W	CAS No.	EC No.
Asphalt	90 - 100	8052-42-4	232-490-9

Hazardous constituents

liuenis			
Chemical identity of the substance	%W/W	CAS No.	EC No.
Ester Bottoms	0 - 10	-	-
SBS Copolymer Additive	0 - 9	-	-
Styrene/butadiene Copolymer	0 - 9	9003-55-8	618-370-2
Sulfur Compounds	1 - 5	7704-34-9	231-722-6
Natural Rubber	0 - 3	-	-
Polyphosphoric Acids	0 - 1	8017-16-1	232-417-0
Polyamine	0 - 1	-	-
Modified Tall Oil Fatty Acid	0 - 1	-	-
Hydrogen sulfide	< 0.1	7783-06-4	231-977-3
Naphthalene	0.01 - 0.15	91-20-3	202-049-5
Polycyclic Aromatic Hydrocarbons	< 0.01	-	-

SECTION 4: FIRST AID MEASURES



Description of first aid measures Self-protection of the first aider

Inhalation

Ensure adequate ventilation. Avoid breathing vapours. Wear suitable protective clothing and gloves. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse. Do not ingest. If swallowed then seek immediate medical assistance.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight

Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



	clothing such as a collar, tie, belt or waistband. Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation. Get medical advice/attention if you feel unwell.
Skin contact	IF ON SKIN (or hair): Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water. If irritation persists, get medical attention.
Eye contact	IF IN EYES: Hold eyelids apart and 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.
Ingestion	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. If unconscious, place in recovery position and get medical attention immediately. Wash out mouth with water and give small quantities of water to drink. Do not give anything by mouth to an unconscious person. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms and effects, both acute and delayed	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	As appropriate for surrounding fire. Do not use water jet. Direct water jet may spread the fire. Product is not classified as flammable, but will burn on contact with flame or
	exposure to high temperature. Combustion may cause toxic fumes. (Carbon monoxide, Carbon dioxide).
Special hazards arising from the substance or mixture	Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.
Advice for firefighters	As appropriate for surrounding fire.
SECTION 6: ACCIDENTAL RELEASE MEASURES	

Personal precautions, protective equipment and emergency procedures	Caution - spillages may be slippery. Eliminate sources of ignition. Shut off leaks if without risk. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid breathing vapours. Do not ingest. If swallowed then seek immediate medical assistance.
Methods and material for containment and cleaning up	Provided it is safe to do so, isolate the source of the leak. Use non-sparking equipment when picking up flammable spill. The vapour is heavier than air; beware of pits and confined spaces. Ensure that the equipment is adequately grounded. Allow small spillages to evaporate provided there is adequate ventilation. Wear flame-resistant antistatic protective clothing. Wear chemical

protection suit and breathing apparatus.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Do not ingest. If swallowed then seek immediate medical assistance.
Conditions for safe storage, including any	Keep container tightly closed. Store in a cool/low-temperature, well-ventilated
incompatibilities	(dry) place away from heat and ignition sources.
Storage temperature	Keep cool. Protect from sunlight.
Incompatible materials	Strong oxidising agents.

SECTION 8: Exposure controls/personal protection

Occupational exposure limits

Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m ³)	Note
Hydrogen Sulfide	7783-06-4	-	-	10	15	NIOSH
		-	-	20	-	OSHA
		1	-	5	-	ACGIH
Naphthalene		10	50	15	75	NIOSH
	91-20-3	10	50			OSHA
		10	-	-	-	ACGIH

Note: OSHA PELs 1910.1000 TABLE Z-1/2/ NIOSH RELs / ACGIH TLVs

Biological exposure indicies

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
Naphthalene	91-20-3	1-Naphthol* + 2-Naphthol*	-	End of shift	Nq, Ns

Source: ACGIH: American Conference of Governmental Industrial Hygienists - Biological Exposure Index (BEI) 2019

Note:

Nq: Nonquantitative

Ns: The determinant is nonspecific, since it is also observed after exposure to other chemicals.

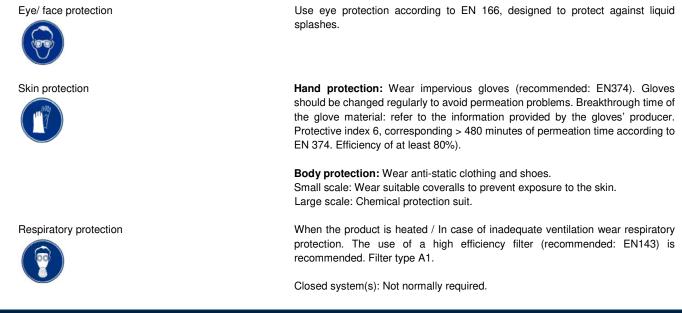
Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Store in a cool/low-temperature, wellventilated (dry) place away from heat and ignition sources. Guarantee that the eye flushing systems and safety showers are located close to the working place.

Individual protection measures, such as personal protective equipment

Fuels are typically used, transferred and transported in closed systems. If exposure is likely (i.e. during sampling) the following advice may be appropriate. Keep good industrial hygiene. Always wash hands before smoking, eating and drinking. Do not eat, drink or smoke at the work place.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.



SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



Appearance Black-brown solid or semi-solid at room temperature. Liquid at temperatures >70°C. Dark brown to black. Odour Tar Odour threshold No data available pН No data available Melting point/freezing point > 15.5 °C / > 60 °F (ASTM D36) Initial boiling point and boiling range 176-593 °C / 350-1100 °F (ASTM D2887) > 232 °C / > 450 °F (ASTM D92) Flash point Evaporation rate No data available Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available Vapour pressure No data available Vapour density No data available Relative density No data available No data available Solubility(ies) Partition coefficient: n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity Dynamic viscosity: >50 P @ 60°C (ASTM D2171) Other information

0.95-1.13

16

Specific Gravity

Pour Point:

SECTION 10: Stability and reactivity

Reactivity

Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products

Stable under normal conditions. Stable under normal conditions. No hazardous reactions known if used for its intended purpose. Keep cool. Protect from sunlight. Strong oxidising agents. Carbon monoxide, Carbon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects Acute toxicity - Ingestion

Acute toxicity - Inhalation

Acute toxicity - Skin contact

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard

Information on likely routes of exposure Inhalation Ingestion Skin contact Eye contact

Early onset symptoms related to exposure

Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/L Skin Corrosion/Irritation, Category 2: Causes skin irritation. Eye Irritation, Category 2A: Causes serious eye irritation. Skin Sensitisation, Category 1A: May cause an allergic skin reaction. Based upon the available data, the classification criteria are not met. Carcinogencity, Category 2: Suspected of causing cancer. Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met.

Possible – accidental exposure Possible – accidental exposure Possible – accidental exposure Unlikely – accidental exposure

Causes skin irritation. May cause an allergic skin reaction.Causes serious eye irritation.

Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



Delayed health effects from exposure	Suspected of causing cancer.
Exposure levels and health effects	See Section: 8
Interactive effects	None known
Other information OSHA Designated Carcinogen NIOSH Occupational Carcinogen List NTP Report on Carcinogens IARC Monographs	Not listed Not listed Not listed Listed
SECTION 12: Ecological information	

life.

None known.

Toxicity

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Other adverse effects

SECTION 13: Disposal considerations

Waste treatment methods

Dispose of this material and its container as hazardous waste. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation. Containers of this material may be hazardous when empty since they

Hazardous to the aquatic environment, Acute, Category 3: Harmful to aquatic

Substance is complex UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance Substance is complex UVCB. Standard tests for this endpoint are intended for

Substance is complex UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance

single substances and are not appropriate for this complex substance

SECTION 14: Transport information

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'. Road/rail (ADR/RID) Sea trans

UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards

Special precautions for user Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable Not applicable Not applicable Not applicable Not applicable

retain product residue.

See Section: 2 Not applicable Sea transport (IMDG) Not applicable Not applicable Not applicable Not applicable Not classified as a Marine Pollutant.

Air (ICAO/IATA)

Not applicable Not applicable Not applicable Not applicable Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

Listed
Not listed

US State Regulations

Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



Proposition 65 (California) Massachusetts, New Jersey, Pennsylvania, Rhode Island- State Right to Know Lists	Not listed Listed	
New York -State Right to Know Lists Minnesota - State Right to Know Lists Massachusetts – Toxic Use reduction act	Listed Listed Listed	
Non-Regional IARC Monographs	Listed	

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated substance / mixture classification. Updated version and date. New format has been issued, all sections have been updated to include new information. Review SDS with care.

Version	4.0
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Date of First Issue	Not available. 3rd ISSUE RELEASED JULY 2020

This Safety Data Sheet was prepared in accordance with US Regulation OSHA HCS (29 CFR 1910.1200)

References:

Existing Safety Data Sheet (SDS),

EU ECHA registration dossier for Asphalt (CAS No.: 8052-42-4).

LEGEND

LLGLND	
ADR/RID	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations
	concerning the international railway transport of dangerous goods
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor (BCF)
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CWA	Clean Water Act
EC	European Community
ECHA	European Chemicals Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
EN	European Standard
EU	European Union
IARC	International Agency for Research on Cancer
ICAO/IATA	International Civil Aviation Organization / International Air Transport Association
IMDG	IMDG: International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
OECD	Organisation for Economic Cooperation and Development
OSHA	The Occupational Safety & Health Administration
STEL	Short term exposure limit
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
UN	United Nations
UVCB	Unknown or Variable Composition
0,00	on a variable composition

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

