

# SAFETY DATA SHEET

Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



Asphalt

## SECTION 1: IDENTIFICATION

### Product Identifier

Product name Asphalt  
CAS No. 8052-42-4

### Other means of Identification

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) Road Building & Other Service  
Uses advised against Anything other than the above.

### Details of the supplier of the safety data sheet

Supplier Vitol Inc.  
2925 Richmond Ave, 11th Floor  
Houston, TX 77098  
Telephone (713) 230-1000  
Fax 713-230-1185  
E-mail (competent person) SDSHOU@vitol.com

### Emergency telephone number

Emergency Phone No. 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 Not classified as hazardous for supply/use.  
Health hazards Skin Corrosion/Irritation, Category 2  
Skin Sensitisation, Category 1A  
Eye Irritation, Category 2A  
Carcinogenicity, Category 2  
Environmental hazards Hazardous to the aquatic environment, Acute, Category 3

### Label elements

Hazard Pictogram(s)



Signal Word(s)

WARNING

Hazard Statement(s)

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

# SAFETY DATA SHEET



Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Asphalt

## Precautionary Statement(s)

Harmful to aquatic life.

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 inhaled 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

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

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.

Inhalation

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

# SAFETY DATA SHEET



Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

**Asphalt**

Skin contact	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. 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.
<b>Most important symptoms and effects, both acute and delayed</b>	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer.
<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

<b>Extinguishing media</b> 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).
<b>Special hazards arising from the substance or mixture</b>	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.
<b>Advice for firefighters</b>	As appropriate for surrounding fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Methods and material for containment and cleaning up</b>	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

<b>Precautions for safe handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b> Storage temperature Incompatible materials	Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep cool. Protect from sunlight. Strong oxidising agents.

## SECTION 8: Exposure controls/personal protection

**Occupational exposure limits**

# SAFETY DATA SHEET



Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Asphalt

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

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

### Biological exposure indices

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, well-ventilated (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.

### Eye/ face protection



Use eye protection according to EN 166, designed to protect against liquid splashes.

### Skin protection



**Hand protection:** Wear impervious gloves (recommended: EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. Efficiency of at least 80%.

**Body protection:** Wear anti-static clothing and shoes.  
Small scale: Wear suitable coveralls to prevent exposure to the skin.  
Large scale: Chemical protection suit.

### Respiratory protection



When the product is heated / In case of inadequate ventilation wear respiratory protection. The use of a high efficiency filter (recommended: EN143) is recommended. Filter type A1.

Closed system(s): Not normally required.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

# SAFETY DATA SHEET



Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Asphalt

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
pH	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)
Flash point	> 232 °C / > 450 °F (ASTM D92)
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
Solubility(ies)	No data available
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)
<b>Other information</b>	
Specific Gravity	0.95-1.13
Pour Point:	16

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions known if used for its intended purpose.
<b>Conditions to avoid</b>	Keep cool. Protect from sunlight.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	Carbon monoxide, Carbon dioxide.

## SECTION 11: Toxicological information

<b>Information on toxicological effects</b>	
<b>Acute toxicity - Ingestion</b>	Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
<b>Acute toxicity - Inhalation</b>	Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
<b>Acute toxicity - Skin contact</b>	Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/L
<b>Skin corrosion/irritation</b>	Skin Corrosion/Irritation, Category 2: Causes skin irritation.
<b>Serious eye damage/irritation</b>	Eye Irritation, Category 2A: Causes serious eye irritation.
<b>Respiratory or skin sensitisation</b>	Skin Sensitisation, Category 1A: May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Based upon the available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Carcinogenicity, Category 2: Suspected of causing cancer.
<b>Reproductive toxicity</b>	Based upon the available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based upon the available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based upon the available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based upon the available data, the classification criteria are not met.
<b>Information on likely routes of exposure</b>	
Inhalation	Possible – accidental exposure
Ingestion	Possible – accidental exposure
Skin contact	Possible – accidental exposure
Eye contact	Unlikely – accidental exposure
<b>Early onset symptoms related to exposure</b>	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

# SAFETY DATA SHEET



Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Asphalt

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

## SECTION 12: Ecological information

<b>Toxicity</b>	Hazardous to the aquatic environment, Acute, Category 3: Harmful to aquatic life.
<b>Persistence and degradability</b>	Substance is complex UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance
<b>Bioaccumulative potential</b>	Substance is complex UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance
<b>Mobility in soil</b>	Substance is complex UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance
<b>Other adverse effects</b>	None known.

## SECTION 13: Disposal considerations

<b>Waste treatment methods</b>	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 retain product residue.
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## SECTION 14: Transport information

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	<b>Road/rail (ADR/RID)</b>	<b>Sea transport (IMDG)</b>	<b>Air (ICAO/IATA)</b>
<b>UN number</b>	Not applicable	Not applicable	Not applicable
<b>UN proper shipping name</b>	Not applicable	Not applicable	Not applicable
<b>Transport hazard class(es)</b>	Not applicable	Not applicable	Not applicable
<b>Packing group</b>	Not applicable	Not applicable	Not applicable
<b>Environmental hazards</b>	Not applicable	Not classified as a Marine Pollutant.	Not applicable
<b>Special precautions for user</b>	See Section: 2		
<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable		

## SECTION 15: REGULATORY INFORMATION

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

### US Federal Regulations

TSCA Chemical Data Reporting (CDR) Rule	Listed
NIOSH Occupational Carcinogen List	Not listed
EPCRA Section 313	Not listed
CWA 307- Toxic	Not listed
CERCLA - Hazardous Substances	Not listed
CWA Section 311 List of Hazardous Substances	Not listed

### US State Regulations

# SAFETY DATA SHEET



Revision: 4.0 Date: 15 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Asphalt

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

<b>Version</b>	4.0
<b>Revision Date</b>	15 April 2021
<b>Date of First Issue</b>	Not available. 3 <sup>rd</sup> 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

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

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

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