

Safety Data Sheet

Penetration grade bitumen (70/100)

Version 1.00

Revision Date 12.06.2023

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name

Penetration grade bitumen (70/100)

Synonyms

Penetration grade bitumen Asphalt Petroleum residue Road binder

Relevant identified uses of the substance or mixture and uses advised against

Use

Research and development. Raw material for adhesives and binders. Raw material for stabilizers surface-active substance Emulsifying agent.

Manufacturer or supplier's details

Company

Sasol Oil Pty (Ltd)

Address

Sasol Place, 50 Katherine Street
Sandton
2090
South Africa

Telephone

+27860335444

E-mail address

sasolchem.info.sa@sasol.com

Emergency telephone number

South Africa: 0800 11 28 90; International: +27 17 610 4444

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification

The substance or mixture is not classified according to the CLP regulation.

Label elements

Hazard statements

NA

This substance or mixture is not classified as



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hazardous according to GHS.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

Substance

asphalt

Contents: ≥ 90.00 - ≤ 100.00 %W/W

CAS-No. 8052-42-4

Index-No.

EC-No. 232-490-9



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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours.
Skin contact	Hot product can cause thermal burns. Wash off immediately with plenty of water. If symptoms persist, call a physician.
Eye contact	If hot product is splashed into eyes flush with water and get immediate attention.
Ingestion	Not expected to be a problem. However, if discomfort occurs seek medical attention.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	Water.
Special hazards arising from the substance or mixture	Burning produces irritant fumes.
Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. Accidental release measures

Environmental precautions	Prevent product from entering drains.
Methods for cleaning up	Sweep up and shovel. Shovel into suitable container for disposal. Bitumens are immiscible with water but may be adsorbed in the sediment. Surface material may be skimmed off for later disposal.



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Reference to other sections Refer to section 8 and 13

SECTION 7. Handling and storage

- Safe handling advice** Bitumen is commonly handled as a liquid at temperatures above 100° C Wear personal protective equipment. Avoid exposure of heated material atmosphere or oxygen
- Advice on protection against fire and explosion** Keep away from heat and sources of ignition.
- Requirements for storage areas and containers** Avoid local overheating when raising to pumping temperature. Where hot bitumen is handled in confined spaces, half-face respirators and effective local artificial ventilation should be provided if possible.
- Advice on common storage** Stored at elevated temperatures : 150° C - 170° C in bulk tanks

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ASPHALT, PETROLEUM FUMES	TWA	5 mg/m3	1995	South Africa RELs
ASPHALT, PETROLEUM FUMES	STEL	10 mg/m3	1995	South Africa RELs

Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

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Personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Heat insulating gloves, Chemical-resistant gloves with close-fitting cuffs
Eye protection	Safety goggles and a full-face shield to be worn.
Hygiene measures	Wash hands before breaks and immediately after handling the product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Solid
State of matter	Solid; at 20 ° C; 1,013 hPa
Colour	Dark brown to black
Odour	Strong Characteristic
Odour Threshold	No data available.
pH	No data available.
Softening point	42 - 51 ° C
Boiling point/boiling range	> 530 ° C
Flash point	> 230 ° C
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapour pressure	No data available.
Relative vapour density	No data available.
Density	1.0296 g/cm ³ ; 25 ° C
Water solubility	Immiscible, Insoluble
Partition coefficient: n-octanol/water	No data available.
Viscosity, dynamic	25,000 - 400,000 mPa.s

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SECTION 10. Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	No data available.
Possibility of hazardous reactions	No data available.
Conditions to avoid	Direct sources of heat. Overheating may result in thermal cracking that produces toxic and flammable vapours.
Materials to avoid	Oxidizing agents. Strong acids Alkali metals. Halogens.
Hazardous decomposition products	Carbon oxides.

SECTION 11. Toxicological information

Acute oral toxicity	LD50 Rat: 5,000 mg/kg;
Acute dermal toxicity	LD50 Rabbit: 2,000 mg/kg;
Repeated dose toxicity	Dermal Rabbit; NOAEL Early embryonic development 200 - 2,000 mg/kg Lowest observed adverse effect level 200 mg/kg

SECTION 12. Ecological information

Toxicity to fish	No data available.
Toxicity to bacteria	No data available.
Other adverse effects	This product has no known ecotoxicological effects.

SECTION 13. Disposal considerations

Product	Can be landfilled or incinerated, when in compliance with local regulations.
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SECTION 14. Transport information

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DG Pictogram



ADR

UN number: 3257
 Class: 9
 Packaging group: III; M9;
 Proper shipping name: ELEVATED TEMPERATURE LIQUID, N.O.S.

RID

UN number: 3257
 Class: 9
 Packaging group: III; M9
 Proper shipping name: ELEVATED TEMPERATURE LIQUID, N.O.S.

ADNR

UN number: 3257
 Class: 9
 Packaging group: III; M9
 Proper shipping name: ELEVATED TEMPERATURE LIQUID, N.O.S.

IMDG

UN number: 3257
 Class: 9
 EmS: F-A, S-P
 Packaging group: III
 Proper shipping name: ELEVATED TEMPERATURE LIQUID, N.O.S.

Marine pollutant

ICAO/IATA

UN number : 3257
 Class: 9
 Proper shipping name: ELEVATED TEMPERATURE LIQUID, N.O.S.

SECTION 15. Regulatory information

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

Canada. DSL - Domestic Substances List, part of CEPA	All chemical constituents are listed in: Canada. DSL - Domestic Substances List, part of CEPA (See chapter 3)
Australia. AICS - Australian Inventory of Chemical Substances	All chemical constituents are listed in: Australia. AICS - Australian Inventory of Chemical Substances (See chapter 3)
New Zealand Inventory of Chemical Substances	All chemical constituents are listed in: New Zealand Inventory of Chemical Substances (See chapter 3)
Japan. ENCS - Existing and New Chemical Substances Inventory	All chemical constituents are listed in: Japan. ENCS - Existing and New Chemical Substances Inventory (See chapter 3)
Japan. Industrial Safety and Health Law - Inventory	All chemical constituents are listed in: Japan. Industrial Safety and Health Law - Inventory (See chapter 3)
Korea. KECI - Korean Existing Chemicals Inventory	All chemical constituents are listed in: Korea. KECI - Korean Existing Chemicals Inventory (See chapter 3)
Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances	All chemical constituents are listed in: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances (See chapter 3)
China. IECSC - Inventory of Existing Chemical Substances in China	All chemical constituents are listed in: China. IECSC - Inventory of Existing Chemical Substances in China (See chapter 3)
Taiwan. Chemical Substances Inventory (TCSI)	All chemical constituents are listed in: Taiwan. Chemical Substances Inventory (TCSI) (See chapter 3)
USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)

SECTION 16. Other information

Full text of H-Statements.

This substance contains no components with H-statement.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety



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and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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