

Safety Data Sheet

according to Regulation (EC) No 1907/2006

PmB 25/55-55 A // PmB 25/55-55 RC

Revision date: 19.05.2017

Product code:

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

1.1. Product identifier

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

Use of the substance/mixture

asphalt for road construction

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	BITUMINA Handel GmbH & Co. KG	
Street:	Josef-Linden-Weg 15	
Place:	D-51149 Köln	
Responsible Department:	Dr. Gans-Eichler	e-mail: info@tge-consult.de
	Chemieberatung GmbH	Tel.: +49 (0)251/924520-60
	Raesfeldstr. 22	www.tge-consult.de
	D-48149 Münster	

1.4. Emergency telephone number:

Poison emergency number Berlin: +49(0)30.19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
 The melted product can cause severe burns.
 When hot, product develops flammable vapours.
 Product may release H₂S. H₂S is toxic, even in small concentrations. Product should be stored and transported at >50°C.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

The product does not contain dangerous substances according to REGULATION (EU) No. 453/2010, Annex II, Part A, 3.2.2. that must be mentioned in Chapter 3.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
				%

Full text of H and EUH statements: see section 16.

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Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Take off immediately all contaminated clothing.

First aider: Pay attention to self-protection!

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Where appropriate artificial ventilation. If unconscious place in recovery position and seek medical advice. In case of respiratory tract irritation, consult a physician.

After contact with skin

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. After contact with molten product, cool skin area rapidly with cold water. Do not peel solidified product off the skin. Call a physician immediately.

Burns caused by molten material must be treated clinically.

After contact with eyes

Cold product: Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists: Get medical advice/attention.

Hot product: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

After ingestion

Call a physician immediately. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

refer to section 2 and 11.

4.3. Indication of any immediate medical attention and special treatment needed

Do not use force or solvents to remove product incrustations from affected skin areas.

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, Extinguishing powder, Sand, Carbon dioxide

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

When hot, product develops flammable vapours.

Can be released in case of fire: Carbon dioxide, Carbon monoxide, Sulphur oxides, Hydrogen sulphide (H₂S),

Hazardous combustion products

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Remove all sources of ignition.

Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray.

Wear personal protection equipment (refer to section 8).

If there is any suspicion of inhalation of H₂S (hydrogen sulphide). Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures. Remove casualty to fresh air as quickly as possible.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Allow stiffening. Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Wear suitable protective clothing. (See section 8.)

Keep away from: Water, liquid

Concentration of H₂S in tank headspaces may reach hazardous values, especially in case of prolonged storage. This situation is especially relevant for those operations which involve direct exposure to the vapours in the tank.

As H₂S has a density greater than ambient air, a possible exception may regard the build-up of dangerous concentrations in specific spots, like trenches, depressions or confined spaces.

Product may release H₂S. H₂S is toxic, even in small concentrations. Product should be stored and transported at >50°C.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. When hot, product develops flammable vapours.

Further information on handling

Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray.

Observe technical data sheet.

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep container dry.

Suitable material for Container: Stainless steel.

Unsuitable materials for Container: polyethylene. PVC (Polyvinyl chloride).

Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances.

Further information on storage conditions

Protect from moisture.

Do not store at temperatures over: 200°C

7.3. Specific end use(s)

refer to chapter 1.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
8052-42-4	Asphalt, petroleum fumes	-	5		TWA (8 h)	WEL
		-	10		STEL (15 min)	WEL
7783-06-4	Hydrogen sulphide	5	7		TWA (8 h)	WEL
		10	14		STEL (15 min)	WEL

Additional advice on limit values

Air limit values:

Limit value for asphalt (vapour.) = 0,5 mg/m³ - Source: ACGIH

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

Eye/face protection

Hot/molten product: If splashing is likely, full head and face protection (protective shield and/or safety goggles) should be used. Product at ambient temperature (dust): safety goggles.

For loading/unloading operations: wear safety helmet with integrated full face visor and neck protection.

Hand protection

Wear suitable gloves. DIN EN 374

Heat resistant gloves with long cuffs, or gauntlets.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin protection

Wear protective clothing for operations with hot material: heat resistant coveralls (with trousers legs over boots and sleeves over cuffs of gloves), heat resistant heavy duty antiskid boots (e. g. leather).

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

Usually no personal respiratory protection necessary.

Respiratory protection necessary at: exceeding exposure limit values, generation/formation of aerosols, insufficient ventilation

Suitable respiratory protective equipment:

Combination filtering device (EN 14387) - Type: B-P2/P3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus

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must be used!

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid
 Colour: brown - black
 Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: not determined
 Sublimation point: not determined
 Softening point: not determined
 Flash point: >230 °C

Explosive properties

none

Lower explosion limits: not determined
 Upper explosion limits: not determined
 Ignition temperature: not determined

Auto-ignition temperature

Solid: >300 °C

Decomposition temperature: not determined

Oxidizing properties

none

Vapour pressure: not determined

Density: 0,99-1,3 g/cm³

Bulk density: not determined

Water solubility: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Vapour density: not determined

Solvent content: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

In case of warming: Formation of: Flammable gases.

10.4. Conditions to avoid

Do not use above following temperatures: 200 °C

Avoid contact of hot bitumen products with water. Risk of splashing of hot material.

Burning danger through hot and liquid bitumen. The contact of hot and liquid bitumen with water can cause violent reactions (vapour formation, spraying, boiling over).

10.5. Incompatible materials

Materials to avoid: Oxidising agent, strong; Water; liquid .

10.6. Hazardous decomposition products

Hydrogen sulphide (H₂S)

Can be released in case of fire: Carbon dioxide, Carbon monoxide, Sulphur oxides, Hydrogen sulphide (H₂S),

Hazardous combustion products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

ATEmix tested

	Dose	Species	Source
LD50, oral	>5000 mg/kg	Rat	
LD50, dermal	>2000 mg/kg	Rabbit	

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No information available.

Further information

Bitumen contains small amounts of polycyclic aromatic hydrocarbons (PAH), that are not considered as bio-available when undissolved. Mixtures of bitumen may contain bio-available PAH if such mixtures are low viscous.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity: LL/EL/IL50 >100 mg/l

Acute Daphnia toxicity: LL/EL/IL50 >100 mg/l

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Algae toxicity: LL/EL/IL50 >100 mg/l
Longterm fish toxicity: NOEC/NOEL > 100 mg/l
Chronic daphnia toxicity: NOEC/NOEL > 100 mg/l

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.
Non-contaminated packages may be recycled.
According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.
Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

050117 WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL; wastes from petroleum refining; Bitumen

Waste disposal number of used product

050117 WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL; wastes from petroleum refining; Bitumen

Waste disposal number of contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN 3257

14.2. UN proper shipping name:

Elevated temperature liquid, n.o.s.

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M9

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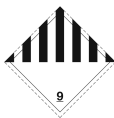
Product code:

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Special Provisions: 274 643 668
 Limited quantity: 0
 Excepted quantity: E0
 Transport category: 3
 Hazard No: 99
 Tunnel restriction code: D

Inland waterways transport (ADN)

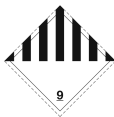
14.1. UN number: UN 3257
14.2. UN proper shipping name: Elevated temperature liquid, n.o.s.
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Classification code: M9
 Special Provisions: 274 643 668
 Limited quantity: 0
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 3257
14.2. UN proper shipping name: Elevated temperature liquid, n.o.s.
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Marine pollutant: NO
 Special Provisions: 232, 274
 Limited quantity: 0
 Excepted quantity: E0
 EmS: F-A, S-P

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3257
14.2. UN proper shipping name: Elevated temperature liquid, n.o.s.
14.3. Transport hazard class(es): 9
14.4. Packing group: -
 Hazard label: 9



Limited quantity Passenger: Forbidden
 Passenger LQ: Forbidden
 Excepted quantity: E0
 IATA-packing instructions - Passenger: Forbidden
 IATA-max. quantity - Passenger: Forbidden
 IATA-packing instructions - Cargo: Forbidden

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IATA-max. quantity - Cargo:

Forbidden

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

refer to chapter 6-8

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

EU regulatory information

2010/75/EU (VOC): not determined
2004/42/EC (VOC): not determined
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): not relevant

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D): - - not water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev 1,00; 19.05.2016, Initial release

Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: Accord européen sur le transport des marchandises dangereuses par Route
AGS: Arbeitsplatzgrenzwert
CAS: Chemical Abstracts Service
DFG: Deutsche Forschungsgemeinschaft
DNEL: Derived No Effect Level
EU: Europäische Union
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level

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NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

TRGS Technische Regeln fuerGefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe

WGK: Wassergefaehrdungsklasse

Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data. and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)