

SAFETY FIRST.



SAFETY- DATA SHEET.

(Ordinance proper (EU) 2015/830)

DURABLE BITUMINOUS ASPHALT MIXTURES

Version: 3
Creation date: 17/02/2022

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Date of impression: 17/02/2022

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY CONTACT.

1.1 Product identifier.

Product name: Durable bituminous asphalt mixtures

1.2 Relevant uses of the mixture and not recommended applications/use.

The asphalt mix is used for repair work on asphalt surfaces and for removing road danger spots, as well as for the production of completely all kinds of new road surfaces.

There are no explicit, non-recommended uses.

1.3 Manufacturer data of the safety data sheet.

Company: eka GmbH
Adress: Emsdettener Str. 45
Postal Code: 48485
Location: Neuenkirchen
Phone Number: +49 (0) 5973 7369930 / +49 (0) 170 3254768
E-mail: info@eka-asphalt.de
Web: www.eka-asphalt.de

1.4 Emergency telephone number:

Phone Number: +49 (0) 170 3254768 / +49 (0) 5973 7369930
(during normal office hours; Mo-Fr; 08:30-18:00)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the mixture.

According to the EU regulation Nr. 1272/2008 the product is not classified as dangerous.

2.2 Part of the label.

Additional hazard warnings:
EUH210. Data sheets can be requested on request.

2.3 Other dangers.

In hot condition ($\geq 180^{\circ}\text{C}$) the product can release hydrogen sulfide, which is highly toxic and can be accumulated in closed rooms or in the tanks.

Under no circumstances nobody should enter confined spaces without having taken all necessary safety precautions



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SECTION 3: COMPOSITION / INFORMATION OF THE COMPONENT

3.1 Substances.

Not applicable.

3.2 Mixtures.

Substances that pose a health or environmental hazard in accordance with EU Regulation No. 1272/2008 have been assigned a community exposure limit at the workplace and are classified as PBT / vPvB or listed in the list of product candidates:

| Identifications | Name | Concentration | Classification - regulation 1272/2008(*) | |
|--|--|-------------------------|--|-------------------------------|
| | | | Classification | Specific concentration limits |
| CAS-Nr.: 8052-42-4 CE-Nr.: 232-490-9 Register no.: 01-2119480172-44-XXXX | [1] Asphalt (petroleum) vapors, benzene soluble aerosols | RepA 020 / solvent-free | - | - |

(*) For more detailed execution see. Section 16 of this safety data sheet.

[1] Substances that have been assigned a community exposure limit at the workplace (see section 8.1)

SECTION 4: FIRST AID.

4.1 Description of first aid.

Due to the composition and typology of the substances contained in the mixture, no special or special indications are required.

Inhalation.

Get the affected person outdoors, so that enough fresh air is ensured. Check the breathing and pulse. If both should stop start immediately the mouth-to-mouth resuscitation and cardiac massage and inform the emergency doctor immediately.

Eye contact.

If the affected person uses contact lens, they must be removed first. Wash the eyes immediately with plenty of water and try to keep the eyes open. In case of any pain or redness that occurs or persists, a doctor must be consulted immediately.



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Skin contact.

Clean the skin with plenty of soap and water and take off contaminated clothing.

Ingestion.

Keep calm, do not provoke vomiting and seek medical help.

4.2 Main symptoms and effects, acute and delayed.

Acute or delayed effects caused by this product are unknown.

4.3 Indication of all medical care and special treatments that must be applied or initiated immediately.

In case of doubt or persistent unpleasant symptoms, a doctor should be consulted immediately.
Unconscious people should never be given anything by mouth.

SECTION 5: FIREFIGHTING MEASURES

5.1 Fire protection.

The product does not represent any particular danger in the event of fire.

Suitable fire extinguishing media.

Extinguishing medium or CO₂. For more severe fires, use foam, dry powder, or powdered water.

Unsuitable fire extinguishing media.

Do not use a water jet. If the fire is near an electrical voltage source, water or foam must never be used as an fire extinguisher.

5.2 Specific hazards arising from the mixture.

Special risks.

Fire can produce thick black smoke. As a result of thermal decomposition, toxic gases are generated, e.g. Carbon monoxide (CO) or hydrogen sulfide (H₂S).
Exposure of such combustion or decomposition smoke can lead to harmful consequences.

5.3 Recommendations to the fire brigade staff.

Cool any cisterns, silos and / or other containers and deposits near located close the source of the fire with sufficient water and watch the wind direction.

Prevent the product from escaping through any drains.



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Fire protection equipment..

Depending on the size of the fire, it may be necessary to wear a fire suit. Depending on the existing danger situation, the use of respiratory equipment, protective gloves, safety glasses or face visors and protective boots should also be considered accordingly.

SECTION 6: ACCIDENTAL SPILL MEASURES

6.1 Personal precautions, protective equipment and emergency measures.

For control values and individual protective measures see item 8.

6.2 Environmental protection.

The product is not classified as hazardous to the environment, however, it should be prevented from entering into drains.

6.3 Cleaning process and material.

Scrape off tacked material roughly and remove the rest with another absorbent material (e.g. sand). Afterwards clean the area with a suitable decontamination medium. The residues are to be disposed properly in a closed container complying local and national regulations (see section 13).

6.4 Reference to other sections.

For information of limit control and individual protective measures, please refer to section 8. The recommendations for material disposal see (section 13) must be followed.

SECTION 7: HANDLING AND STORAGE

7.1 More consumer information safety advice.

For personal protection (see section 8) smoking, eating and drinking is prohibited in the working area. Please also consider the proper hygiene and safety rules to be followed. Containers must never be opened under pressure and shouldn't be cleaned with compressed air. Always store the product in the original container or packaging.



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7.2 Safe storage conditions, including possible incompatibilities.

Storing in accordance with local and national laws and rules. Consider the information on the information label. The material must be stored in its original packaging in a dry and well-ventilated place with an ambient temperature range of -25 to 50 °C. The product must always be kept away from any flash points, oxidizing mediums, acids, as well as acidified or alkaline liquids. Do not smoke. Avoid access by unauthorized people. Simply reclose and store opened containers or packaging with rests of material.

The product is not affected by the 2012/18 / UE guideline (SEVESO III).

7.3 Specific area of application.

Repair works on asphalt surfaces and removal of danger spots (e.g. potholes), and other road maintenance works or to re-close road pits and construction of completely new road surfaces.

SECTION 8: LIMIT VALUE CONTROL / INDIVIDUAL PROTECTION

8.1 Control parameter.

Exposure limit values at the workplace:

| Name | N. CAS | Country | Limit | ppm | mg/m ³ |
|--|-----------|-----------|------------|-----|-------------------|
| Asphalt (petroleum) vapors, benzene soluble aerosols | 8052-42-4 | Spain [1] | 8 hours | | 0,5 |
| | | | Short-term | | |

[1] According to the environmental limit value list of the Institute for Health Protection and Safety at Work 2018. The product does not contain substances with biological limits.

Concentration level classification DNEL/DMEL:

| Name | DNEL/DMEL | Art | Werte |
|--|-------------------|---------------------------------------|-----------------------------|
| Asphalt (petroleum) vapors, benzene soluble aerosols CAS-Nr.: 8052-42-4 CE-Nr.: 232-490-9 | DNEL (Workers) | Inhalation, chronic, Local effects | 2,9 (mg/m ³) |

DNEL: Derived No Effect Level

The degree of exposure / exposure value of the substance is below the minimum permissible, so no effects are expected.

DMEL: Derived Minimal Effect Level

The degree of exposure / exposure value is correspondingly low, so that the risk of an impact can be classified as very low, which can be taken into account as a minimum and tolerable risk.



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8.2 PPE – Personal Protective Equipment

Technical measures:

In general, adequate ventilation must always be provided. This can e.g. can be achieved by a good extractor or ventilation system.

| | |
|---|---|
| Concentration | 100 % |
| Application: | Reparatur- u. Wartungsarbeiten / Herstellung von Asphaltdecken und Pflasterarbeiten |
| Breathing protection: | |
| Respiratory protection equipment is not required considering a proper correct product use. | |
| Hands protection: | |
| If the product is handled correctly, no hands protective equipment is required. When handling the product in hot condition, wear protective gloves. | |
| Eye protection: | |
| If the product is handled correctly, no personal protective equipment is required. For safety reasons, however, it is recommended to wear safety glasses while working | |
| Skin protection: | |
| PPE: | Protective shoes |
| Characteristics: | Marked with „CE“ category III. |
| Directive: | CEN:EN ISO 13287, EN 20347 |
| Maintenance: | The shoes adapt to the shape of the first user's foot. Due to this fact as well as for hygienic reasons, a reuse of them by another person should be avoided. |
| Observations: | Work shoes contain protective elements that protect the user from injuries and accidents, therefore the condition of the work shoes should be constantly checked. |



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Image. Agglomerated arid
Colour: Black
Olfaction: Bitumious
Olfactory threshold: N/A
pH: N.A
Fusion point: 330 °C
Boiling point : N.A.
Flash point :> 250 °C
Evaporation rate: <2%
Inflammability (stable, gaseous): N.A.
Lower explosion limit: N.A.
Upper explosion limit: N.A.
Vapor pressure N.A.
Water steam density N.A.
Relative density: 2.500 t/m³ (in compacted condition).
Solubility: N.A.
Fat solubility: N.A.
Water solubility: Not soluble
Distribution coefficient (n-Octanol / Water): N.A.
Spontaneous ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.
N.A.= Not applicable

9.2 Other information

Settling point: N.A.
Scintillation: N.A.
Kinematic viscosity: N.A.
% Solid: N.A.
N.A.= Not applicable



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SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product is stable due its low reactivity rate.

10.2 Chemical stability.

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of dangerous reactions.

The product does not offer a possible dangerous reaction.

10.4 Conditions to avoid.

Avoid any kind of non-proper handling.

10.5 Materials that are incompatible.

The product must always be kept away from any flash points, oxidizing mediums, acids, as well as acidified or alkaline liquids.

10.6 Dangerous decomposition products.

Partial decomposition is triggered by overheating of the product, whereby toxic gases, e.g. Carbon monoxide (CO) and hydrogen sulfide (H₂S) are released.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

- a) Acute toxicity; No classification data are known.
- b) Skin corrosion or irritation; No classification data are known.
- c) Severe eye injuries or eye irritation; No classification data are known.
- d) Sensitization of the respiratory tract or skin; No classification data are known.
- e) Germ cell mutagenicity; No classification data are known.
- f) Carcinogenicity; No classification data are known.
- g) Reproductive toxicity; No classification data are known.
- h) Specific toxicity in certain organs (STOT)- one-time suspension; No classification data are known.
- i) Specific toxicity in certain organs (STOT)- repeated suspension; No classification data are known.
- j) Risk of aspiration; Based on the available data, the classification criteria are not fulfilled.



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SECTION 12: ENVIRONMENTAL INFORMATION.

12.1 Toxicity.

No information are available about ecotoxicity of the existing substance.

12.2 Persistence and degradability.

No information available on the biodegradability of the existing substance.
Furthermore, no information on persistence is known.

12.3 Bioaccumulative potential.

There is no information or data of the bioaccumulation of the existing substances.

12.4 Soil mobility.

No information or data is available on mobility in the soil.
The product must not enter into drains and sewage systems.

12.5 Results of the PBT and vPvB evaluation.

There is no information available from the PBT and vPvB evaluation of the product.

12.6 Other effects.

There is no information available from other harmful effects on the environment.

SECTION 13: CONSIDERATION IN RELATION TO WASTE DISPOSAL.

13.1 Waste treatment methods.

It is not allowed to dispose the product into the sewage systems or into drains.
Waste and packaging must be properly handled and disposed in line with the according local and national laws.

Product waste code: 170301 *

Follow the provisions of Directive 2008/98 / EC on waste disposal.

SECTION 14: TRAFFIC INFORMATION AND DANGEROUS GOODS REGULATION.

There is no risk during transportation.

In case of an accident and spillage of the product, please refer item 6.

14.1 Number ONU.

No applicable, as this product is not a dangerous substance or good (dangerous good).



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14.2 Official United Nations Transport Designation.

Description:

ADR: This product is not a dangerous substance or good (dangerous good).

IMDG: This product is not a dangerous substance or good (dangerous good).

ICAO/IATA: This product is not a dangerous substance or good (dangerous good).

14.3 Transport hazard class.

This product is not a dangerous substance or good (dangerous good).

14.4 Packaging group.

This product is not a dangerous substance or good (dangerous good).

14.5 Environmental hazards.

This product is not a dangerous substance or good (dangerous good).

14.6 Special precautions for users.

Not applicable. This product is not a dangerous substance or good (dangerous good).

14.7 Transport of loose material only in accordance with Annex II of MARPOL and IBC code.

Not applicable. This product is not a dangerous substance or good (dangerous good).

SECTION 15: ADDITIONAL RULES.

15.1 Regulation and health & environmental safety regulations specific to the mixture.

According to Regulation (EC) No. 1005/2009 of the European Parliament and of the Council of September 16, 2009, the product does not belong to a product group with substances that damage the ozone layer.

Product classification In accordance with Annex I of Directive 2012/18 / EU (SEVESO III): N / A

According to the Regulation (EU) No. 528/2012 on the marketing and use of biocides, the product is not affected.

According to the Regulation (EU) No. 649/2012, the product is not affected by the procedure for the export and import of dangerous chemicals

15.2 Chemical safety assessment.

An assessment of the chemical safety of the product has not been done.



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SECTION 16: OTHER INFORMATION.

Classification and procedure for determining the classification of the mixture according to Regulation (CE) n° 1272/2008 [CLP]:

Physical hazards: according to the test result
Health risks: acc. calculation method according to regulation (CE) n° 1272/2008 [CLP]
Environmental hazards: acc. calculation method according to regulation (CE) n° 1272/2008 [CLP]

A basic training referring to safety and hygiene rules is strongly recommended for the correct handling of the product.

It is recommended to use the product only for the intended purpose.

Abbreviations and acronyms used:

CAS-NO.: Chemical Abstracts Service is an international labeling standard for chemical substances

CEN: Comité Europeo de Normalización . European Committee for Standardization

DNEL: Derived No Effect Level

The degree of exposure / exposure value of the substance is below the minimum permissible. Therefore no negative health effects are to be expected.

DMEL: Derived Minimal Effect Level

The degree of exposure / exposure value is accordingly so low that the risk of negative health effects can be classified as very low and is therefore considered to be a minimal and tolerable risk.

PPE: Personal protective equipment.

Main bibliographical references and data sources:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Decree (EU) 2015/830.

Decree (EG) Nr. 1907/2006.

Decree (EU) Nr. 1272/2008.

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The information in this safety data sheet was compiled correctly in accordance with the EU Commission (EU) 2015/830 of May 28, 2015, Amendment of the regulation according to (EC) No. 1907/2006 of the European Parliament and the Advisory committee, in terms of data set, evaluation, authorization and restriction of substances, chemical substances and mixtures (REACH), this is created by the European Agency for Chemical Substances and dissection, the change to the directive 1999/45/CE and the regulations are repealed (CEE) n° 793/93 of the Council and regulations (CE) n° 1488/94 the Commission and the guidelines 76/769 / EWG of the Council and the guidelines 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC of the Commission.

The information of this product safety data sheet is based on the current state of knowledge and the current EC and national laws, whereby it should be noted that the individual working conditions and the implementation of the safety regulations as well as the actual execution of the work are beyond our knowledge and control.

The product must not and never be used for purposes other than those listed in this safety data sheet (see item 7.3).

It is always the responsibility of the user to take the appropriate measures to meet the requirements set out in the legislation.