

SAFETY DATA SHEET

prepared by NIRAS A/S

Revision date: 11th February 2022

Supersedes: 18th April 2018

Version: 5

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

BITUMENMIX

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

Raw material as binder in the production of asphalt.

1.3. Details of the supplier of the safety data sheet:

Tarpaper Recycling ApS, Naverland 2, 16. sal, 2600 Glostrup, Denmark
Tel. 0045 40 59 94 00, E-mail: info@tarpaper.dk, Contact person: Karsten Rasmussen

1.4. Emergency telephone number:

Tel. 0045 40 59 94 00 (only during office hours).
In case of a medical emergency following exposure to a chemical call NHS 111 - only available in certain areas of England (outside of these areas call NHS Direct on 08 45 46 47). The National Poisons Information Service emergency number is 0344 892 0111 (only available to health professionals). In Denmark call "Giftlinjen" at (+45) 8212 1212.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

The product shall not be classified as hazardous according to the classification and labelling rules for substances and mixtures.

CLP- classification:

Not classified.

2.2. Label elements:

The product shall not be classified as hazardous according to the classification and labelling rules for substances and mixtures.

**Hazard
pictograms
Signal word**

Contains:

-

Hazard statements:

-

Precautionary statements:

-

Supplemental information:

Safety data sheet available on request.

2.3. Other hazards:

Dust, if any, from dry product may cause slight irritation of respiratory tract and eyes.
This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures:

Product type: Finely ground roofing felt.

CAS no. EC no.	REACH reg.no.	%	Chemical name	CLP- classification	Note:
64742-93-4	-	-	Asphalt, oxidized /	Not classified	-
265-196-4 /	-	-	Polymer modified asphalt	Not classified	-
8052-42-4					
232-490-9					

For full text of Hazard- and EU Hazard-statements: see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Seek fresh air.

Skin: Wash with water and soap and apply fat skin cream.

Eyes: Rinse immediately with water. Open eyes wide. Remove any contact lenses. Seek medical advice if irritation persists.

Ingestion: Rinse mouth and drink water. Seek medical advice in case of persistent discomfort.

Burns: Not relevant.

Other information: When obtaining medical advice, show the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed: Dust, if any, from dry product may cause slight irritation of respiratory tract and eyes.

4.3. Indication of any immediate medical attention and special treatment needed: No special immediate treatment required.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media: Extinguish with powder, foam, carbon dioxide or water.

5.2. Special hazards arising from the substance or mixture: In fire conditions, the product may release i.e., oxides of carbon, hydrogen sulfide and other harmful compounds.

5.3. Advice for firefighters: If there is a risk of exposure to vapor and fumes, wear a full-face positive-pressure self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: No special requirements.

6.2 Environmental precautions: Do not leave any waste or residual material behind in nature.

6.3 Methods and material for containment and cleaning up: Sweep up/collect spill for possible reuse or transfer to suitable waste containers.

6.4. Reference to other sections: See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling:** Do not breathe fumes/vapor from heated product.
Avoid contact with eyes.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store in dry place, protected against sun.
- 7.3 Specific end use(s):** See section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters:****Occupational exposure limit value**

Chemical name	Workplace exposure limits (WELs)		Note
	Long-term exposure limit (8-hour TWA reference period)	Short-term exposure limit (15-minute reference period)	
Asphalt, oxidized / Polymer modified asphalt	5 mg/m ³	10 mg/m ³	-
Legal basis:	EH40/2005 Workplace exposure limits (second edition, published 2011).		
Note:	None.		
Monitoring procedures:	Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.		

8.2 Exposure controls

Appropriate engineering controls: Wash hands before breaks, eating, toilet visits and after work. Use mild soap and water and apply skin cream after washing.

Personal protective equipment

Respiratory protection: Not required.

Hand protection: Wear safety gloves.
Avoid skin contact with hot product: Use heat-resistant gloves.

Eye/face protection: Not required.

Skin protection: Wear working clothes.

Environmental exposure controls: No special requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance:	Black granulate	Vapor pressure:	Not applicable
Odour:	Characteristic	Vapor density:	Not applicable
Odour threshold:	No available data	Relative density:	> 1 g/cm ³
pH:	Not applicable	Solubility(ies):	Insoluble in water
Melting point/freezing point:	No available data	Partition coefficient n-octanol/water:	Not applicable
Initial boiling point and boiling range:	No available data	Auto-ignition temperature:	No available data
Flash point:	> 230 °C	Decomposition temperature:	No available data
Evaporation rate:	Not applicable	Viscosity:	Not applicable
Flammability (solid, gas):	No available data	Explosive properties:	non-explosive
Upper/lower flammability or explosive limits:	No available data	Oxidising properties:	non-oxidizing

9.2. Other information: None

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:	Not reactive.
10.2. Chemical stability:	The product is stable when used in accordance with the supplier's directions.
10.3. Possibility of hazardous reactions:	No risk of hazardous reactions.
10.4. Conditions to avoid:	None known.
10.5. Incompatible materials:	None known.
10.6. Hazardous decomposition products:	The product may emit hazardous thermal decomposition products if overheated.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity - oral:	The product does not have to be classified. Test data are not available.
Acute toxicity - dermal:	The product does not have to be classified. Test data are not available.
Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available.
Skin corrosion/irritation:	Prolonged skin contact may cause irritation. The product does not have to be classified. Test data are not available.
Serious eye damage/eye irritation:	Excessive heating leads to the formation of smoke and fumes which may be irritating to eyes. Dust, if any, from dry product may cause slight irritation. The product does not have to be classified. Test data are not available.
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	IARC (the International Agency for Research on Cancer) has evaluated occupational exposures to oxidized bitumens and their emissions during roofing as "probably carcinogenic to humans" (Group 2A). This is based on i.a. American tests involving animals exposed to emissions from oxidized bitumen that have been heated to high temperatures (199-316 °C). BitumenMix containing oxidized bitumen and/or polymer modified bitumen is used in hot mix asphalt, which is laid at much lower temperatures of between 110-170 °C. IARC has evaluated occupational exposures to bitumens and their emissions during road paving as "possibly carcinogenic to humans" (Group 2B). No carcinogenic or genotoxic PAH compounds have been demonstrated in connection with asphalt containing recycled bitumen from roofing felt waste when heated to 175°C (tests on site and in the laboratory). The product does not have to be classified. Test data are not available.
Reproductive toxicity:	The product does not have to be classified. Test data are not available.
Single STOT exposure:	Excessive heating leads to the formation of smoke and fumes which may be irritating to respiratory tract. Dust, if any, from dry product may cause slight irritation. The product does not have to be classified. Test data are not available.
Repeated STOT exposure:	Long term exposure to high concentrations of bitumen fume may result in chronic bronchitis and, possibly, other respiratory disorders. The product does not have to be classified. Test data are not available.
Aspiration hazard:	No hazard.
Other toxicological effects:	None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:	The product is not regarded as hazardous to the environment.
12.2. Persistence and degradability:	Not biodegradable.
12.3. Bioaccumulative potential:	No bioaccumulative potential.
12.4. Mobility in soil:	The product is not mobile in soil.
12.5. Results of PBT and vPvB assessment:	This product does not contain any PBT or vPvB substances.
12.6. Other adverse effects:	None known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods:**

Waste, residual material etc. should be disposed of in accordance with national and local regulations.

EWC-code: 17 03 02

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

ADR/RID

14.1 UN number	14.2 UN proper shipping name	14.3. Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	Other information
-	-	-	-	-	-

IMDG

14.1 UN number	14.2 UN proper shipping name	14.3. Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	Other information
-	-	-	-	-	-

ADN

14.1 UN number	14.2 UN proper shipping name	14.3. Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	Other information
-	-	-	-	-	-

IATA

14.1 UN number	14.2 UN proper shipping name	14.3. Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	Other information
-	-	-	-	-	-

14.6. Special precautions for user: None.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture: None.

15.2 Chemical safety assessment: No chemical safety assessment has been carried out for this mixture.

SECTION 16: OTHER INFORMATION

Changes:	Issue 4: Change in section 1, 2, 3, 5 and 16.
Abbreviations and acronyms:	PBT: Persistent, Bioaccumulative and Toxic. vPvB: very Persistent and very Bioaccumulative. CLP: CLP-Regulation (EC) No 1272/2008 (Classification, Labelling and Packaging).
Method of classification:	Calculation based on the hazards of the known components.
H-statements:	None.
Training advice:	Follow national rules applying for work with bitumen products. The user must be instructed in the proper work procedure and be familiar with the contents of this safety data sheet.
Further information:	<p>Composition: BitumenMix consists of finely ground roofing felt. Roofing felt is typically made of polyester and/or glass felt, which are impregnated with and coated on both sides with asphalt mixed with mineral filler. Asphalt is often further modified with SBS. The top side of the roofing felt is surfaced with sand/slate and may be coated with metal foil or other materials. The underside is typically either surfaced with sand or covered with a thin plastic film.</p> <p>Precautions when applying hot mix asphalt: Keep the application temperature of the hot mix asphalt as low as possible. Recommended application temperature: Max. 190 °C.</p>
Person responsible for the Safety Data Sheet (e-mail):	Susanne Brandt Hansen (sbha@niras.dk)

Disclaimer:	The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product should not be used for purposes other than those shown in section 1. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.
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