

## Product Safety Information Sheet

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis  
Issue date: 10/4/2022 Version: 1.0

### SECTION 1: Identification of the article and of the company/undertaking

#### 1.1. Product identifier

Product form : Article  
Trade name : Membrana Impermeabilizzante Bitume Distillato Polimeri

#### 1.2. Relevant identified uses of the article and uses advised against

##### 1.2.1. Relevant identified uses

Use of the article : Waterproofing of structures (buildings, roof gardens, car parks, bridges, reservoirs, dams, tunnels, etc.).

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of product safety information sheet

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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not applicable to articles

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

other hazards which do not result in classification : The heating of the material (distilled bitumen and polymers) during the laying operation can lead to the emission of gases and vapours as well as fumes and aerosols of condensation, particularly during the 'flaming' process. There are therefore possible risks from inhaling potentially dangerous substances (fumes and vapours), particularly in confined or poorly ventilated environments.

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

### SECTION 3: Composition/information on ingredients

#### 3.1. Article

The product comes in the form of a membrane packaged in rolls, consisting of Distilled Bitumen, Polyolefin and/or Elastomeric Polymers, natural inert materials and any functional additives.

# Membrana Impermeabilizzante Bitume Distillato Polimeri

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(Occupational Exposure Limits, if available, are listed in section 8.1)

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: On heating : Inhalation of fumes or vapours may cause respiratory irritation.
Symptoms/effects after skin contact	: Risk of thermal burns on contact with molten product.
Symptoms/effects after eye contact	: Risk of thermal burns on contact with molten product.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
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#### 5.2. Special hazards arising from the article

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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#### 5.3. Advice for firefighters

Protective equipment for firefighters	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area.
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##### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

# Membrana Impermeabilizzante Bitume Distillato Polimeri

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.  
Incompatible materials : Strong oxidizing agents. Ozone. Peroxides.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

Bitumen (8052-42-4)	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Pétroles (bitumes de) (fumées) # Asphalt (petroleum) (rook)
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Асфалт (битуми) (по бензен)
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Asfalt (bitumen)
GVI (OEL TWA) [1]	5 mg/m <sup>3</sup>
KGVI (OEL STEL)	10 mg/m <sup>3</sup>
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Asfalt (aurud)
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Ασφαλτος (βιτουμέωια)
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους

# Membrana Impermeabilizzante Bitume Distillato Polimeri

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<b>Bitumen (8052-42-4)</b>	
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Asphalt (Bitumen), petroleum fumes
OEL TWA [1]	0.5 mg/m <sup>3</sup> inhalable fraction
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Poland - Occupational Exposure Limits</b>	
Local name	Asfalt naftowy
NDS (OEL TWA)	5 mg/m <sup>3</sup> frakcja wdychalna
NDSCh (OEL STEL)	10 mg/m <sup>3</sup> frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Asfalto (betuminoso), fumos (aerossóis solúveis em benzeno)
OEL TWA	0.5 mg/m <sup>3</sup> I (Fração inalável)
Remark	A4 (Agente não classificável como carcinogénico no Homem); IBEP (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	Asfalt
OEL TWA	5 mg/m <sup>3</sup> (Fumuri)
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
<b>Spain - Occupational Exposure Limits</b>	
Local name	Asfalto (petróleo)
VLA-ED (OEL TWA) [1]	0.5 mg/m <sup>3</sup> humos, aerosoles solubles en benceno
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
<b>Norway - Occupational Exposure Limits</b>	
Local name	Asfalt (røyk)
Grenseverdi (OEL TWA) [1]	5 mg/m <sup>3</sup>
Regulatory reference	FOR-2021-06-28-2248
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Asphalt (Bitumen) fumes, as benzene-soluble aerosol
ACGIH OEL TWA	0.5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT & eye irr. Notations: A4 (Not classifiable as a Human Carcinogen); BEIP
Regulatory reference	ACGIH 2022

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

# Membrana Impermeabilizzante Bitume Distillato Polimeri

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### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

The use of PPE is recommended for the personnel during the 'installation' of the membrane.

#### 8.2.2.1. Eye and face protection

##### Eye protection:

In case of contact with the eyes : Wear eye protection. Safety glasses with side shields. EN 166

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

In case of repeated or prolonged exposure : Wear protective gloves. Breakthrough time : > 480 min. Layer thickness : > 0,11 mm. EN 374

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment (EN 136/140/145)

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Not determined
Appearance	: Membrane in rolls.
Odour	: Slight smell of bitumen.
Odour threshold	: Not determined
Melting point	: > 100 °C
Freezing point	: Not applicable
Boiling point	: ≤ 470 °C (bitumen)
Flammability	: Non flammable.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: > 230 °C (bitumen)
Auto-ignition temperature	: > 485 °C (bitumen)
Decomposition temperature	: Not determined
pH	: Not applicable
pH solution	: Not determined
Viscosity, kinematic	: Not applicable
Solubility	: Insoluble in water. Soluble in oils/fats. Soluble in organic solvents.
Partition coefficient n-octanol/water (Log Kow)	: Not determined
Vapour pressure	: Not determined
Vapour pressure at 50°C	: Not determined
Density	: 1 – 1.5 g/cm <sup>3</sup>

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Relative density	: Not determined
Relative vapour density at 20°C	: Not applicable
Particle size	: Not determined

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. It reacts with strongly oxidising chemical agents (ozone, peroxides, etc.) with exothermic reactions, especially when heated.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizing agents. Ozone. Peroxides.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: Not applicable
Serious eye damage/irritation	: Not classified pH: Not applicable
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

### Membrana Impermeabilizzante Bitume Distillato Polimeri

Viscosity, kinematic	Not applicable
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### 11.2. Information on other hazards

No additional information available

# Membrana Impermeabilizzante Bitume Distillato Polimeri

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### 12.2. Persistence and degradability

##### Membrana Impermeabilizzante Bitume Distillato Polimeri

Persistence and degradability	Not biodegradable.
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#### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not determined.
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#### 12.4. Mobility in soil

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Mobility in soil	Not determined
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#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : The membranes are free of tar, asbestos and oxidised bitumen.  
European List of Waste (LoW) code : 17 03 02 - bituminous mixtures other than those mentioned in 17 03 01  
17 06 04 - insulation materials other than those mentioned in 17 06 01 and 17 06 03  
17 09 04 - mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

# Membrana Impermeabilizzante Bitume Distillato Polimeri

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ADR	IMDG	IATA	ADN	RID
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the article

#### 15.1.1. EU-Regulations

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

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<b>Abbreviations and acronyms:</b>	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate



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Abbreviations and acronyms:	
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Effective concentration for 50 percent of test population (median effective concentration)
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties