

	SAFETY DATA SHEET	Page : 1 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

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

1.1. Product identifier

Product form : Mixture
Trade name/designation : POLYMER MODIFIED BITUMEN
25/55-55
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Distribution
Intermediate
Formulation
Lubricants,
Coating,
Rubber products
Construction,
Drilling applications
Fuels

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

NIS a.d. Novi Sad
Narodnog Fronta 12
21000 Novi Sad
Serbia
T + 381 (0) 21 481 1111
REACHNIS@nis.rs

Only Representative

BENS Consulting d.o.o.
Špruha 19
1236 Trzin
Slovenija
T +386 41 979 800
info@bens-consulting.eu

1.4. Emergency telephone number

Emergency number : + 381 (0) 21 481 1111
Only available during office hours.

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

	SAFETY DATA SHEET	Page : 2 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Not applicable.

2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Asphalt, oxidized	CAS-No.: 64742-93-4 EC-No.: 265-196-4 REACH-no: 01-2119498270-36-0049	95 – 100	Not classified
SBS Polymer (Styrene-butadiene-styrene)	CAS-No.: 9003-55-8 EC-No.: 618-370-2	≤ 5	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.

	SAFETY DATA SHEET	Page : 3 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

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

Inhalation	: Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs.
Skin contact	: Hot product (liquid) can cause thermal burns.
Eyes contact	: Hot product (liquid) can cause thermal burns.
Ingestion	: Ingestion is not considered a potential route of exposure.

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	: carbon dioxide (CO ₂), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Not flammable. Heating will cause a rise in pressure with a risk of bursting.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂).

5.3. Advice for firefighters

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel	: Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed.
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6.1.2. For emergency responders

For emergency responders	: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.
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6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

	SAFETY DATA SHEET	Page : 4 / 16
		Revision nr : 5.0
		Issue date : 25/07/2025
	POLYMER MODIFIED BITUMEN 25/55-55	Supersedes : 19/09/2022

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. After cleaning, flush traces away with water.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Incompatible materials : Strong acids. Oxidising agents. Bases.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Special rules on packaging : Containers which are opened should be properly resealed and kept upright to prevent leakage.

Packaging materials : Keep only in the original container. Suitable material: Coated steels, metal containers.

Germany

German storage class (LGK) : LGK 10 - Combustible liquids

Switzerland

Storage class (LK) : LK 10/12 - Liquids

	SAFETY DATA SHEET	Page : 5 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

7.3. Specific end use(s)

For further information see section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	Personal air monitoring. Room air monitoring.

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Asphalt, oxidized (64742-93-4)	
DNEL/DMEL (workers)	
Long-term - local effects, inhalation	2,88 mg/m ³
DNEL/DMEL (general population)	
Long-term - local effects, inhalation	0,61 mg/m ³
PNEC (additional information)	
Additional information	No data available UVCB

Additional information : Asphalt, oxidized (CAS 64742-93-4): Concentration measurement in air.
Personal air monitoring

8.1.5. Control banding

No additional information available

8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Ensure equipment is adequately earthed. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling.

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

	SAFETY DATA SHEET	Page : 6 / 16
		Revision nr : 5.0
		Issue date : 25/07/2025
	POLYMER MODIFIED BITUMEN 25/55-55	Supersedes : 19/09/2022

Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: Not determined. Breakthrough time : refer to the recommendations of the supplier. Thickness of the glove material: Not determined. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. (EN407)
Eye protection	: Use suitable eye protection (EN166): Safety glasses. During splash contact: face shield
Body protection	: Wear suitable protective clothing. Overalls, apron and boots recommended.
Respiratory protection	: In the case of vapour formation use a respirator with an approved filter. Self-contained open-circuit compressed air breathing apparatus (EN 137)
Thermal hazard protection	: Heat resistant gloves (EN407). Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation. Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: dark brown. Black.
Appearance	: viscous liquid. / Solid <= 19 °C.
Odour	: Characteristic.
Odour threshold	: No data available
Melting / freezing point	: 30 – 128 °C (ASTM D36)
Freezing point	: Not available
Softening point	: ≥ 55 °C
Initial boiling point and boiling range	: > 320 °C
Flammability	: Not flammable
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: ≥ 250 °C (EN ISO 2592)
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: No data available
pH	: No data available
Kinematic viscosity	: 1000 – 16000 mm ² /s (60°C)(EN12595) ; 80 – 3210 mm ² /s (135°C)(EN12595)
Dynamic viscosity	: 1189 – 8650 mPa·s (100°C)(EN13302)
Solubility	: Water: insoluble (20°C)

	SAFETY DATA SHEET	Page : 7 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

Partition coefficient n-octanol/water (Log Kow) : No data available
 Vapour pressure : < 0,1 kPa (20°C)
 Vapour pressure at 50°C : Not available
 Density : Not available
 Relative density : 0,925 – 1,07 g/cm³ (15°C)
 Vapour density : No data available
 Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Additional information : penetration (25°C), 25 - 55 (1 - 10mm)

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See Section 7 for information on safe handling.

10.5. Incompatible materials

Incompatible with strong acids and oxidizing agents. Bases. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Reference to other sections 5.2.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
 Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
 Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

	SAFETY DATA SHEET	Page : 8 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

Asphalt, oxidized (64742-93-4)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat	94,4 mg/m ³

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: No data available

Asphalt, oxidized (64742-93-4)	
pH	Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: No data available

Asphalt, oxidized (64742-93-4)	
pH	Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

SBS Polymer (Styrene-butadiene-styrene) (9003-55-8)	
IARC group	3 - Not classifiable

Asphalt, oxidized (64742-93-4)	
IARC group	2A - Probably carcinogenic to humans

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Asphalt, oxidized (64742-93-4)	
NOAEL, subacute, Dermal, rabbit, local	200 mg/kg bw/day
NOAEL, subacute, Dermal, rabbit, systemic	2000 mg/kg bw/day
NOAEC, subchronic, Inhalation, Rat, systemic	103.9 mg/m ³
NOAEC, subchronic, Inhalation, Rat, local	10.4 mg/m ³

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

	SAFETY DATA SHEET	Page : 9 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

POLYMER MODIFIED BITUMEN 25/55-55	
Kinematic viscosity	1000 – 16000 mm ² /s (60°C)(EN12595) ; 80 – 3210 mm ² /s (135°C)(EN12595)
Asphalt, oxidized (64742-93-4)	
Kinematic viscosity	7 mm ² /s (40°C)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Asphalt, oxidized (64742-93-4)	
EC50 72h - Algae [1]	56 mg/l (Species: Pseudokirchneriella subcapitata)
Acute (short-term) fish toxicity, LL50 (96h)	> 1000 mg/l QSAR
Chronic (long-term) fish toxicity, LL50 (28d)	> 1000 mg/l QSAR
Chronic (long-term) fish toxicity, NOEL	≥ 1000 mg/l QSAR
Acute (short-term) daphnia toxicity, LL50 (48h)	> 1000 mg/l QSAR
Chronic (long-term) daphnia toxicity, NOEL (21d)	≥ 1000 mg/l QSAR
Acute (short-term) algae toxicity, EL50 (72h)	> 1000 mg/l QSAR (Inhibition of growth rate.)
Toxicity to other organisms (Tetrahymena pyriformis), LL50 (40h)	> 1000 mg/l QSAR
Toxicity to other organisms (Tetrahymena Pyriformis), NOEL (40h)	> 1000 mg/l Inhibition of growth rate.

	SAFETY DATA SHEET	Page : 10 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

12.2. Persistence and degradability

POLYMER MODIFIED BITUMEN 25/55-55	
Persistence and degradability	Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

12.3. Bioaccumulative potential

POLYMER MODIFIED BITUMEN 25/55-55	
Partition coefficient n-octanol/water (Log Kow)	No data available
Bioaccumulative potential	No additional information available.

12.4. Mobility in soil

POLYMER MODIFIED BITUMEN 25/55-55	
Mobility in soil	No data available
Ecology - soil	No data available.

Asphalt, oxidized (64742-93-4)	
Surface tension	Not applicable

12.5. Results of PBT and vPvB assessment

POLYMER MODIFIED BITUMEN 25/55-55	
Results of PBT assessment	Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Other adverse effects : No data available.

	SAFETY DATA SHEET	Page : 11 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities
The following Waste Codes are only suggestions:
05 01 17 - bitumen

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
3257	3257	3257	3257	3257
14.2. UN proper shipping name				
ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt, oxidized)	ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt, oxidized)	Elevated temperature liquid, n.o.s. (CONTAINS : Asphalt, oxidized)	ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt, oxidized)	ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt, oxidized)
Transport document description				
UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt, oxidized), 9, III, (D)	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt, oxidized), 9, III	UN 3257 Elevated temperature liquid, n.o.s. (CONTAINS : Asphalt, oxidized), 9, III	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt, oxidized), 9, III	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt, oxidized), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
		Not applicable		
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

	SAFETY DATA SHEET	Page : 12 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

14.6. Special precautions for user

Special precautions for user

: Polymer modified bitumen is dispatched and transported the car tanks. Tanks that are used to transport polymer modified bitumen must be satisfactory purity. It is preferred that therein the previously transported to a polymer modified bitumen. Tanks which previously transported travel bitumen, fuel oil, etc. can not be used to transport polymer modified bitumen without rinsing to remove traces of these products . Minimum temperature polymer modified bitumen when loading the tanks should be 165 °C.

- Overland transport

Classification code (ADR)	: M9
Special provisions	: 274, 643, 668
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P099, IBC99
Portable tank and bulk container instructions (ADR)	: T3
Portable tank and bulk container special provisions (ADR)	: TP3, TP29
Tank code (ADR)	: LGAV
Tank special provisions (ADR)	: TU35, TC7, TE6, TE14, TE24
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Bulk (ADR)	: VC3
Hazard identification number (Kemler No.)	: 99
Orange plates	: 
Tunnel restriction code	: D
EAC code	: 2Y

- Transport by sea

Special provisions (IMDG)	: 232, 274
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P099
IBC packing instructions (IMDG)	: IBC01
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP3, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-P
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW5
Flash point (IMDG)	: above 100°C
Properties and observations (IMDG)	: Any liquid which is transported at or above 100°C but below its flashpoint. May cause fire if in contact with combustible material due to extreme temperature.

	SAFETY DATA SHEET	Page : 13 / 16
		Revision nr : 5.0
		Issue date : 25/07/2025
	POLYMER MODIFIED BITUMEN 25/55-55	Supersedes : 19/09/2022

- Air transport

PCA Limited quantities (IATA) : Forbidden
 PCA limited quantity max net quantity (IATA) : Forbidden
 PCA packing instructions (IATA) : Forbidden
 PCA max net quantity (IATA) : Forbidden
 CAO packing instructions (IATA) : Forbidden
 CAO max net quantity (IATA) : Forbidden
 ERG code (IATA) : 9L

- Inland waterway transport

Classification code (ADN) : M9
 Special provisions (ADN) : 274, 643, 668
 Limited quantities (ADN) : 0
 Excepted quantities (ADN) : E0
 Carriage permitted (ADN) : T
 Equipment required (ADN) : PP
 Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M9
 Special provisions (RID) : 274, 643, 668
 Limited quantities (RID) : 0
 Excepted quantities (RID) : E0
 Packing instructions (RID) : P099, IBC99
 Portable tank and bulk container instructions (RID) : T3
 Portable tank and bulk container special provisions (RID) : TP3, TP29
 Tank codes for RID tanks (RID) : LGAV
 Special provisions for RID tanks (RID) : TU35, TE6, TE14
 Transport category (RID) : 3
 Special provisions for carriage – Bulk (RID) : VC3, AP11
 Special provisions for carriage - Loading, unloading and handling (RID) : CW17, CW31
 Hazard identification number (RID) : 99

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

	SAFETY DATA SHEET	Page : 14 / 16
		Revision nr : 5.0
		Issue date : 25/07/2025
	POLYMER MODIFIED BITUMEN 25/55-55	Supersedes : 19/09/2022

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Detergent Regulation (648/2004/EC): Labelling of contents

Labelling for contents according to : Not applicable
regulation (EC) No. 648/2004

15.1.2. National regulations

France

Installations classées			
No ICPE	Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

	SAFETY DATA SHEET	Page : 15 / 16
		Revision nr : 5.0
	POLYMER MODIFIED BITUMEN 25/55-55	Issue date : 25/07/2025
		Supersedes : 19/09/2022

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Ontwikkeling

15.2. Chemical safety assessment

Not applicable

For the following substances of this mixture a chemical safety assessment has been carried out
Asphalt, oxidized

SECTION 16: Other information

Indication of changes:

1.3	Details of the supplier of the safety data sheet	Modified	
16	Other information	Modified	

Abbreviations and acronyms:

	DNEL = Derived No Effect Level
	DMEL = Derived Minimal Effect level
	PNEC = Predicted No Effect Concentration
	OEL-STEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	TWA = time weighted average
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	NOEL = no-observed-effect level
	NOEC = No observed effect concentration
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	EWC = European waste catalogue
	NA = Not applicable
	N.O.S. = Not Otherwise Specified
	VOC = Volatile organic compounds
	mg/kg BW = mg/kg bodyweight
	QSAR = Quantitative structure-activity relationship (QSAR)
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
	ABM = Algemene beoordelingsmethodiek
	BTT = Breakthrough time (maximum wearing time)
	NOEL: no-observed-effect level
	STOT = Specific Target Organ Toxicity

	SAFETY DATA SHEET	Page : 16 / 16
		Revision nr : 5.0
		Issue date : 25/07/2025
	POLYMER MODIFIED BITUMEN 25/55-55	Supersedes : 19/09/2022

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). LOLI Database. Supplier information.

Training advice : Training staff on good practice.

Other information : Classification - Assessment method: CLP Calculation method (Article 9). Hazard classification and labeling of petroleum substances in the European Economic Area, Concawe – 2025 (<http://www.concawe.eu>).

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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