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

1.1. Product identifier

Product form : Substance
 Trade name : INDUSTRIAL BITUMEN
 Chemical name : Asphalt
 EC-No. : 232-490-9
 CAS-No. : 8052-42-4
 REACH registration No : 01-2119480172-44-0068
 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

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
Dragana.Cvetkov@nis.eu (REACH)

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	Official advisory body	Address	Emergency number
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


2.2. Label elements

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

Not applicable.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name : ASPHALT
CAS-No. : 8052-42-4
EC-No. : 232-490-9

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Asphalt	(CAS-No.) 8052-42-4 (EC-No.) 232-490-9 (EC Index) -	100	Not classified

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

3.2. Mixtures

Not applicable

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.

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 : According to experience not expected.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.
 Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Not combustible.
 Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂), nitrogen oxides (NO_x) and sulphur oxides.

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 dust. 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.

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.

6.2. Environmental precautions

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

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. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. 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 dust. 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.

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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 : Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10.

Incompatible substances or mixtures : Strong acids. Strong oxidizing agents. Strong 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. Keep container tight closed.

Packaging materials : Keep only in the original container. Steel. Stainless steel. Coated steels. metal containers.


7.3. Specific end use(s)

For further information see section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Asphalt (8052-42-4)		
Belgium	OEL TWA	5 mg/m ³ (fume)
Bulgaria	OEL TWA	5 mg/m ³
Bulgaria	OEL STEL	10 mg/m ³
Croatia	GVI (OEL TWA) [1]	5 mg/m ³
Croatia	KGVI (OEL STEL)	10 mg/m ³
Denmark	OEL TWA [1]	1 mg/m ³ (Cyclohexane containing fraction of total dust-fume)
Estonia	OEL TWA	5 mg/m ³ (fume)
Greece	OEL TWA	5 mg/m ³
Ireland	OEL TWA [1]	0,5 mg/m ³ (petroleum fumes-inhalable fraction)
Ireland	OEL STEL	10 mg/m ³ (petroleum fumes-inhalable fraction)
Poland	NDS (OEL TWA)	5 mg/m ³ (inhalable fraction)
Poland	NDSch (OEL STEL)	10 mg/m ³ (inhalable fraction)
Portugal	OEL TWA	0,5 mg/m ³ (fumes, inhalable fraction)
Romania	OEL TWA	5 mg/m ³ (fume)
Spain	VLA-ED (OEL TWA) [1]	0,5 mg/m ³ (fume)
United Kingdom	WEL TWA (OEL TWA) [1]	5 mg/m ³ (fumes)
United Kingdom	WEL STEL (OEL STEL)	10 mg/m ³ (fumes)
Norway	Grenseverdi (OEL TWA) [1]	5 mg/m ³ (fume)
Norway	Korttidsverdi (OEL STEL)	10 mg/m ³ (value calculated-fume)
Switzerland	MAK (OEL TWA) [1]	5 mg/m ³ (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	20 mg/m ³ (aerosol, vapour)
Australia	OES TWA [1]	5 mg/m ³ (fume)
Canada (Quebec)	VEMP (OEL TWA)	5 mg/m ³ (fume)
USA - ACGIH	ACGIH OEL TWA	0,5 mg/m ³ (fume, inhalable particulate matter)
USA - NIOSH	NIOSH REL C	5 mg/m ³ (fume)

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Additional information : Personal monitoring. Concentration measurement in air


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.
Hand protection	: 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	: During splash contact: Use suitable eye protection (EN166): 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	: Use dedicated equipment. Heat resistant gloves (EN407).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: liquid.
Colour	: No data available.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: 30 – 130 °C
Freezing point	: No data available
Initial boiling point and boiling range	: ~ > 400 °C
Flash point	: ~ > 230 °C Closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Not applicable, liquid
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Density	: ~ 1000 - 1050 kg/m ³ (15°C)
Solubility	: No information available.
Partition coefficient n-octanol/water	: ~ > 6
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
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.

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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.
Explosive limits	: Not applicable
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: 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

Relative evaporation rate (butylacetate=1) : No data available

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. Nitrates . See Section 7 for information on safe handling.

10.6. Hazardous decomposition products


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

Asphalt (8052-42-4)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat	> 94,4 mg/m ³

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Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: No data available
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: No data available
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)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met) NOAEC: 300 mg/m ³
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 (8052-42-4)	
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

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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INDUSTRIAL BITUMEN (8052-42-4)	
Kinematic viscosity	No data available

Other information	: Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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
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11.2.2 Other information

Other information	: Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4
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SECTION 12: Ecological information

12.1. Toxicity

Environmental properties	: Ecological injuries are not known or expected under normal use.
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Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Asphalt (8052-42-4)	
ErC50 algae	> 1000 mg/l
NOEC chronic fish	> 1000 mg/l
NOEC chronic crustacea	> 1000 mg/l
Acute (short-term) fish toxicity, LL50 (96h)	> 1000 mg/l QSAR

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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.

12.2. Persistence and degradability

INDUSTRIAL BITUMEN (8052-42-4)	
Persistence and degradability	Not readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

INDUSTRIAL BITUMEN (8052-42-4)	
Partition coefficient n-octanol/water	~ > 6
Bioaccumulative potential	May cause bioaccumulation.

Asphalt (8052-42-4)	
BCF - Fish [1]	(no bioaccumulation expected)
Partition coefficient n-octanol/water	Justification for data waiving

12.4. Mobility in soil

INDUSTRIAL BITUMEN (8052-42-4)	
Ecology - soil	No data available.

Asphalt (8052-42-4)	
Surface tension	Justification for data waiving

12.5. Results of PBT and vPvB assessment

INDUSTRIAL BITUMEN (8052-42-4)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Endocrine disrupting properties


Adverse effects on the environment caused by endocrine disrupting properties

: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

12.7. Other adverse effects

Other adverse effects

: No data available

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SECTION 13: Disposal considerations

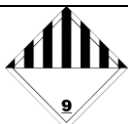
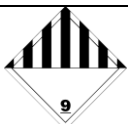
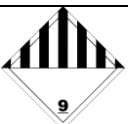
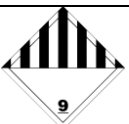
13.1. Waste treatment methods

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) : 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				
3257	3257	3257	3257	3257
14.2. UN proper shipping name				
ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)	ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)	(Asphalt)	ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)	ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt)
Transport document description				
UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt), 9, III, (D)	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt), 9, III	UN 3257 (Asphalt), 9	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt), 9, III	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (Asphalt), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
		Not applicable		
14.4. Packing group				
III	III	Not applicable	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				

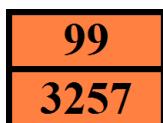
14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M9
Special provisions : 274, 643
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P099, IBC99
Portable tank and bulk container instructions (ADR) : T3

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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.

- Air transport


No data available

- Inland waterway transport

Classification code (ADN) : M9
 Special provisions (ADN) : 274, 58, 643
 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
 Limited quantities (RID) : 0
 Excepted quantities (RID) : E0
 Packing instructions (RID) : P099, IBC99

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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
 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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
 INDUSTRIAL BITUMEN is not on the REACH Candidate List
 INDUSTRIAL BITUMEN is not on the REACH Annex XIV List

15.1.2. National regulations

France


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

Germany

Regulatory reference : WGK nwg, Non-hazardous to water (Classification according to AwSV)
 Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen
 SZW-lijst van kankerverwekkende stoffen : ASPHALT is listed
 SZW-lijst van mutagene stoffen : ASPHALT is listed
 SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed
 SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed
 SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

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15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out


SECTION 16: Other information

Indication of changes:

2.3	ED text	Added	
5.3	Protection during firefighting	Added	
5.3	Other information	Added	
7.1	Precautions for safe handling	Added	
7.2	Heat and ignition sources	Added	
7.2	Special rules on packaging	Added	
7.3	Specific end use(s)	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
14.7	Maritime transport in bulk according to IMO instruments	Added	
15.1	Installations classées	Added	
15.1	Waterbezwaarlijkheid	Added	

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)

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	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

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

Training advice : Training staff on good practice.

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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