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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/designation : INDUSTRIAL BITUMEN  
 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  
[REACHNIS@nis.rs](mailto:REACHNIS@nis.rs)

#### Only Representative

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

### Adverse physicochemical, human health and environmental effects

No additional information available

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## 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 : This substance does not meet the PBT/vPvB criteria of 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 : INDUSTRIAL BITUMEN  
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 REACH-no: 01-2119480172-44-0068	100	Not classified

### 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.

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#### **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.

### **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 flammable.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO <sub>2</sub> ). nitrogen oxides (NO <sub>x</sub> ) 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.
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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.

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### **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.

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.

Incompatible materials : Strong acids. Oxidising agents. Bases. Nitrates.

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. Steel. Stainless steel. Coated steels. metal containers.

#### **Germany**


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

#### **Switzerland**

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

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

For further information see section 1.


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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

<b>Asphalt (8052-42-4)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> (fume)
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	5 mg/m <sup>3</sup>
KGVI (OEL STEL)	10 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup> (Cyclohexane containing fraction of total dust-fume)
OEL STEL	2 mg/m <sup>3</sup> (Cyclohexane containing fraction of total dust-fume)
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> (fume)
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	0,5 mg/m <sup>3</sup> (petroleum fumes-inhalable fraction)
OEL STEL	10 mg/m <sup>3</sup> (petroleum fumes-inhalable fraction)
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	5 mg/m <sup>3</sup> (inhalable fraction)
NDSch (OEL STEL)	10 mg/m <sup>3</sup> (inhalable fraction)
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	0,5 mg/m <sup>3</sup> (fumes; inhalable fraction)
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen fumes
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> (fume)
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	0,5 mg/m <sup>3</sup> (fume)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	5 mg/m <sup>3</sup> (fumes)
WEL STEL (OEL STEL)	10 mg/m <sup>3</sup> (fumes)

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<b>Asphalt (8052-42-4)</b>	
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	5 mg/m <sup>3</sup> (fume)
Korttidsverdi (OEL STEL)	10 mg/m <sup>3</sup> (value calculated-fume)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	5 mg/m <sup>3</sup> (aerosol, vapour)
KZGW (OEL STEL)	20 mg/m <sup>3</sup> (aerosol, vapour)
OEL chemical category	Skin notation, Category C2 carcinogen
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH® TLV® TWA	0,5 mg/m <sup>3</sup> (fume, inhalable particulate matter)
ACGIH chemical category	Not Classifiable as a Human Carcinogen fume, coal tar-free
<b>USA - ACGIH - Biological Exposure Indices</b>	
BEI	2,5 µg/l Parameter: 1-Hydroxypyrene with hydrolysis - Medium: urine - Sampling time: end of shift at end of workweek (background)

#### 8.1.2. Recommended monitoring procedures

<b>Monitoring methods</b>	
Monitoring methods	Personal air monitoring. Concentration measurement in air.

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC


Additional information : Personal monitoring. Concentration measurement in air

#### 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.


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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	: 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
Colour	: No data available.
Appearance	: liquid.
Odour	: Characteristic.
Odour threshold	: No data available
Melting / freezing point	: 30 – 130 °C
Freezing point	: Not available
Initial boiling point and boiling range	: > 400 °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	: > 230 °C Closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Solubility	: No information available.
Partition coefficient n-octanol/water (Log Kow)	: > 6
Vapour pressure	: No data available
Vapour pressure at 50°C	: Not available
Density	: 1000 – 1050 kg/m <sup>3</sup> (15°C)
Relative density	: No data available
Vapour density	: No data available

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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**

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**

Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Sulphur oxides. 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)

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

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



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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)

#### Asphalt (8052-42-4)

IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: NOAEC: 300 mg/m <sup>3</sup>
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 <sup>3</sup>

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
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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
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 (Log Kow)	> 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

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#### 12.5. Results of PBT and vPvB assessment

INDUSTRIAL BITUMEN (8052-42-4)	
Results of PBT assessment	This substance does not meet the PBT/vPvB criteria of REACH, 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.

### 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
<b>14.1. UN number or ID number</b>				
3257	3257	3257	3257	3257
<b>14.2. UN proper shipping name</b>				
ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt)	ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt)	Elevated temperature liquid, n.o.s. (CONTAINS : Asphalt)	ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt)	ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt)
<b>Transport document description</b>				
UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt), 9, III, (D)	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt), 9, III	UN 3257 Elevated temperature liquid, n.o.s. (CONTAINS : Asphalt), 9, III	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt), 9, III	UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. (CONTAINS : Asphalt), 9, III
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	9

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ADR	IMDG	IATA	ADN	RID
		Not applicable		
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
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, 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

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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

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**

Not applicable

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## 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)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not 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)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

##### 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 nwg, Non-hazardous to water (Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV); ID No. 326).

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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 : The substance is not listed  
SZW-lijst van mutagene stoffen : The substance is not 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

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out


### SECTION 16: Other information

Indication of changes:

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

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	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). LOLI Database. Supplier information.

Training advice : Training staff on good practice.

Other information : 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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