

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## VULCANISING CEMENT - 235 ML

Version	Revision Date:	SDS Number:	Date of last issue: 06.12.2023
9.0	07.05.2024	10692388-00012	Date of first issue: 23.12.2015

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

#### 1.1 Product identifier

Trade name : VULCANISING CEMENT - 235 ML

Product code : 0890100017

Unique Formula Identifier (UFI) : JQ4G-70YX-W00H-U5J7

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

Use of the Sub-stance/Mixture : Adhesives  
Professional use product

Recommended restrictions on use : Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company : Adolf Wuerth GmbH & Co. KG  
Reinhold-Würth-Str. 12-17  
74653 Künzelsau

Telephone : +49 794015 0

Telefax : +49 794015 10 00

E-mail address of person responsible for the SDS : isi@wuerth.com

#### 1.4 Emergency telephone number

+49 (0)6132 – 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.

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Long-term (chronic) aquatic hazard, Category 2      H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H225      Highly flammable liquid and vapour. H315      Causes skin irritation. H336      May cause drowsiness or dizziness. H411      Toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261      Avoid breathing vapours. P264      Wash skin thoroughly after handling. P273      Avoid release to the environment. P280      Wear protective gloves/ protective clothing/ eye protection/ face protection.  <b>Response:</b> P391      Collect spillage.

#### Hazardous components which must be listed on the label:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  
Heptane

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Vapours may form explosive mixture with air.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Adhesives

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0  01-2119475515-33	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 90 - <= 100
Heptane	142-82-5 205-563-8 601-008-00-2	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 2,5 - < 10
(Dibutyl- amine)bis(dibutyldithiocarbamate- S,S')zinc	35884-05-0 252-774-6	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 2,5 - < 10

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.

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- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

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

- Risks : Causes skin irritation.  
May cause drowsiness or dizziness.

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

- Treatment : Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.  
Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides

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Metal oxides

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

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## SECTION 6: Accidental release measures

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

- Personal precautions : Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

- Environmental precautions : Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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

- Methods for cleaning up : Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- |                         |   |  |
|-------------------------|---|--|
| Technical measures      | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.  |
| Local/Total ventilation | : | Use explosion-proof electrical, ventilating and lighting equipment.  |
| Advice on safe handling | : | For outdoor use only<br>Do not get on skin or clothing.<br>Do not breathe vapours.<br>Do not swallow.<br>Avoid contact with eyes.<br>Wash skin thoroughly after handling.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Non-sparking tools should be used.<br>Keep container tightly closed.<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>Take precautionary measures against static discharges.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Hygiene measures        | : | If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.   |

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

- |   |   |  |
|---|---|--|
| Requirements for storage areas and containers | : | Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.  |
| Advice on common storage                      | : | Do not store with the following product types:<br>Strong oxidizing agents<br>Self-reactive substances and mixtures<br>Organic peroxides<br>Flammable solids<br>Pyrophoric liquids<br>Pyrophoric solids<br>Self-heating substances and mixtures<br>Substances and mixtures, which in contact with water, emit flammable gases<br>Explosives |

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Gases  
Very acutely toxic substances and mixtures

Storage class (TRGS 510) : 3

Storage period : 24 Months

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	TWA	500 ppm 2.085 mg/m <sup>3</sup>	2000/39/EC	
		Further information: Indicative			
		AGW	500 ppm 2.100 mg/m <sup>3</sup>	DE TRGS 900	
Peak-limit: excursion factor (category): 1;(I)					
Heptane	142-82-5	TWA	500 ppm 2.085 mg/m <sup>3</sup>	2000/39/EC	
		Further information: Indicative			
		AGW	500 ppm 2.100 mg/m <sup>3</sup>	DE TRGS 900	
Peak-limit: excursion factor (category): 1;(I)					
		MAK	500 ppm 2.100 mg/m <sup>3</sup>	DE DFG MAK	
Peak-limit: excursion factor (category): 1; I					
Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C					

#### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	heptan-2,5-dione: 250 µg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
		Heptane	142-82-5	heptan-2,5-dione: 250 µg/l (Urine)
		2,5-heptandione: 250 µg/l (Urine)	Immediately after exposition or after working hours	DE DFG BAT

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### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Heptane	Workers	Inhalation	Long-term systemic effects	2085 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	447 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	149 mg/kg bw/day
	Workers	Ingestion	Long-term systemic effects	149 mg/kg bw/day
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Workers	Inhalation	Long-term systemic effects	2085 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	447 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	149 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	149 mg/kg bw/day

### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations.  
Use explosion-proof electrical, ventilating and lighting equipment.

#### Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:  
Safety glasses  
Equipment should conform to DIN EN 166

Hand protection  
Material : Nitrile rubber  
Break through time : 240 - 480 min  
Glove thickness : 0,35 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Wear the following personal protective equipment:



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If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.

Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  
Equipment should conform to DIN EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

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### SECTION 9: Physical and chemical properties

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

Physical state : viscous, liquid

Colour : tan

Odour : solvent-like

Odour Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : 88 °C

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Ignitable (see flash point)

Upper explosion limit / Upper flammability limit : 6,7 %(V)

Lower explosion limit / Lower flammability limit : 1,2 %(V)

Flash point : -9 °C  
Method: closed cup

Auto-ignition temperature : No data available

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Decomposition temperature : No data available

pH : Solvent mixture; pH value determination not possible, no aqueous solution

Viscosity  
Viscosity, kinematic : 400 mm<sup>2</sup>/s (40 °C)

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : Solvent: organic solvent soluble

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : 119 hPa (20 °C)

Relative density : No data available

Density : 0,71 g/cm<sup>3</sup> (20 °C)

Relative vapour density : No data available

Particle characteristics  
Particle size : Not applicable

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : > 1  
(Butyl Acetate=1.0)

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Highly flammable liquid and vapour.  
Vapours may form explosive mixture with air.  
Can react with strong oxidizing agents.

#### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

#### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

### SECTION 11: Toxicological information

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

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

|| Not classified based on available information.

#### Components:

##### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Acute oral toxicity	: LD50 (Rat): > 5.840 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity	: LC50 (Rat): > 23,3 mg/l Exposure time: 4 h Test atmosphere: vapour Remarks: Based on data from similar materials
Acute dermal toxicity	: LD50 (Rat): > 2.800 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials

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### Heptane:

- Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials
- Acute inhalation toxicity : LC50 (Rat): > 73,5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### (Dibutylamine)bis(dibutyldithiocarbamate-S,S')zinc:

- Acute oral toxicity : LD50 (Rat): > 2.000 - 4.000 mg/kg
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Remarks: Based on data from similar materials

### Skin corrosion/irritation

Causes skin irritation.

### Components:

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

- Species : Rabbit  
Result : Skin irritation  
Remarks : Based on data from similar materials

### Heptane:

- Species : Rabbit  
Result : Skin irritation  
Remarks : Based on data from similar materials

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

- Species : Rabbit  
Result : No eye irritation  
Remarks : Based on data from similar materials

### Heptane:

- Species : Rabbit  
Result : No eye irritation  
Remarks : Based on data from similar materials

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### Respiratory or skin sensitisation

#### Skin sensitisation

|| Not classified based on available information.

#### Respiratory sensitisation

|| Not classified based on available information.

#### Components:

##### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative
Remarks	: Based on data from similar materials

##### Heptane:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative

### Germ cell mutagenicity

|| Not classified based on available information.

#### Components:

##### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro	
	Result: negative	
	Remarks: Based on data from similar materials	
	Test Type: Bacterial reverse mutation assay (AMES)	
	Result: negative	
	Remarks: Based on data from similar materials	
	Test Type: In vitro mammalian cell gene mutation test	
	Method: OECD Test Guideline 476	
	Result: negative	
	Remarks: Based on data from similar materials	
	Germ cell mutagenicity- Assessment	: Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

##### Heptane:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES)
	Result: negative
	Test Type: In vitro mammalian cell gene mutation test
	Method: OECD Test Guideline 476
	Result: negative

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Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

### Carcinogenicity

|| Not classified based on available information.

#### Components:

##### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

##### Heptane:

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Result : negative  
Remarks : Based on data from similar materials

### Reproductive toxicity

|| Not classified based on available information.

#### Components:

##### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

|| Effects on foetal development : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

##### Heptane:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

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Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

### STOT - single exposure

|| May cause drowsiness or dizziness.

#### Components:

##### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| Assessment : May cause drowsiness or dizziness.

##### Heptane:

Assessment : May cause drowsiness or dizziness.

### STOT - repeated exposure

|| Not classified based on available information.

#### Repeated dose toxicity

#### Components:

##### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| Species : Rat  
|| NOAEL : 12,47 mg/l  
|| Application Route : Inhalation  
|| Exposure time : 90 Days  
|| Remarks : Based on data from similar materials

##### Heptane:

Species : Rat  
NOAEL : 12,35 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 90 Days

### Aspiration toxicity

|| Not classified based on available information.

#### Components:

##### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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### Heptane:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): > 13,4 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): 3 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	: EL50 (Selenastrum capricornutum (green algae)): > 10 - 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials  NOELR (Selenastrum capricornutum (green algae)): 0,1 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0,17 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: Water Accommodated Fraction



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Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### Heptane:

Toxicity to fish : LC50 (*Gambusia affinis* (Mosquito fish)): 4.924 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): 0,2 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 : > 0,1 - 1 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 1

### (Dibutylamine)bis(dibutyldithiocarbamate-S,S')zinc:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 1 - 10 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 0,1 - 1 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (*Selenastrum capricornutum* (green algae)): > 1 - 10 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

NOEC (*Pseudokirchneriella subcapitata* (green algae)): > 0,01 - 0,1 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l  
Exposure time: 25 d  
Species: *Oncorhynchus mykiss* (rainbow trout)  
Remarks: Based on data from similar materials

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 1

### 12.2 Persistence and degradability

#### Components:

##### **Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

##### **Heptane:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 70 %  
Exposure time: 10 d

##### **(Dibutylamine)bis(dibutyldithiocarbamate-S,S')zinc:**

Biodegradability : Result: Not readily biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

##### **Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**

Partition coefficient: n-octanol/water : log Pow: > 4  
Remarks: Based on data from similar materials

##### **Heptane:**

Partition coefficient: n-octanol/water : log Pow: 4,5

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

Waste Code : The following Waste Codes are only suggestions:

used product  
08 04 09, waste adhesives and sealants containing organic solvents or other hazardous substances

unused product  
08 04 09, waste adhesives and sealants containing organic solvents or other hazardous substances

uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances

Acc. Packaging Act properly emptied packaging:  
Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADN** : UN 1133  
**ADR** : UN 1133  
**RID** : UN 1133  
**IMDG** : UN 1133  
**IATA** : UN 1133

#### 14.2 UN proper shipping name

**ADN** : ADHESIVES  
**ADR** : ADHESIVES  
**RID** : ADHESIVES  
**IMDG** : ADHESIVES  
**II** (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, Heptane)  
**IATA** : Adhesives

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 3	
<b>ADR</b>	: 3	
<b>RID</b>	: 3	
<b>IMDG</b>	: 3	
<b>IATA</b>	: 3	

#### 14.4 Packing group

**ADN**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

**RID**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

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### IMDG

Packing group : II  
Labels : 3  
EmS Code : F-E, S-D

### IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the

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restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t
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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)	2.500 t	25.000 t
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Water hazard class (German) : WGK 2 obviously hazardous to water

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- ny) Classification according to AwSV, Annex 1 (5.2)
- TA Luft List (Germany) :
- 5.2.1: Total dust:  
Not applicable
  - 5.2.2: Inorganic substances in powdered form:  
Not applicable
  - 5.2.4: Inorganic substances in gaseous form:  
Not applicable
  - 5.2.5: Organic Substances:  
Not applicable
  - 5.2.7.1.1: Carcinogenic substance:  
Not applicable
  - 5.2.7.1.1: Quartz fine dust PM4:  
Not applicable
  - 5.2.7.1.1: Formaldehyde:  
Not applicable
  - 5.2.7.1.1: fibres:  
Not applicable
  - 5.2.7.1.2: Germ cell mutagens:  
Not applicable
  - 5.2.7.1.3: Substances toxic to reproduction:  
Not applicable
  - 5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances:  
Not applicable
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 650 g/l  
Remarks: VOC content excluding water

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

- Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of H-Statements

- H225 : Highly flammable liquid and vapour.
- H304 : May be fatal if swallowed and enters airways.
- H315 : Causes skin irritation.
- H336 : May cause drowsiness or dizziness.

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H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Flam. Liq. : Flammable liquids  
Skin Irrit. : Skin irritation  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
DE DFG BAT : Germany. MAK BAT Annex XIII  
DE DFG MAK : Germany. MAK BAT Annex IIa  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
TRGS 903 : TRGS 903 - Biological limit values  
2000/39/EC / TWA : Limit Value - eight hours  
DE DFG MAK / MAK : MAK value  
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative



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### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Flam. Liq. 2	H225
Skin Irrit. 2	H315
STOT SE 3	H336
Aquatic Chronic 2	H411

### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

DE / EN