

**HEADLIGHT HÄRTER**

Creation date 05th November 2020  
Revision date Version 2.0

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

- 1.1. Product identifier**  
Substance / mixture HEADLIGHT HÄRTER  
Number mixture  
1 35164  
UFI 7FA2-7D3D-500E-7J1P
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Mixture's intended use Hardener.  
Mixture uses advised against For professional use only.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
Name or trade name RETECH, s.r.o.  
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00  
Czech Republic  
Identification number (CRN) 25018205  
VAT Reg No CZ25018205  
Phone +420327596428  
E-mail info@retech.cz  
Web address www.retech.com
- Competent person responsible for the safety data sheet**  
Name RETECH, s.r.o.  
E-mail info@retech.cz
- 1.4. Emergency telephone number**  
European emergency number: 112

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Flam. Liq. 3, H226  
Skin Sens. 1, H317  
STOT SE 3, H335, H336  
Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

**Most serious adverse physico-chemical effects**

Flammable liquid and vapour.

**Most serious adverse effects on human health and the environment**

May cause an allergic skin reaction. Possible irritation of airways. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Hazard pictogram****Signal word**

Warning

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**Hazardous substances**

 hexamethylene diisocyanate, oligomers  
 n-butyl acetate  
 Solvent naphtha (petroleum), light arom.

**Hazard statements**

 H226 Flammable liquid and vapour.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P370+P378 In case of fire: Use powder extinguisher/foam/carbon dioxide to extinguish.

**Supplemental information**

 EUH204 Contains isocyanates. May produce an allergic reaction.  
 EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Chemical characterization**

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 28182-81-2 EC: 500-060-2	hexamethylene diisocyanate, oligomers	50-<55	Skin Sens. 1, H317 Acute Tox. 4, H332 STOT SE 3, H335	1
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	24,0- <26,5	Flam. Liq. 3, H226	1
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	21,5- <24,0	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	1
Index: 649-356-00-4 CAS: 64742-95-6 EC: 918-668-5 Registration number: 01-2119455851-35	Solvent naphtha (petroleum), light arom.	2,5-<3,0	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	

**Notes**

1 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

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**SECTION 4: First aid measures****4.1. Description of first aid measures**

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical help.

**If on skin**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. In the event of issues, find medical help. Wash contaminated clothing before reuse.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical help.

**If swallowed**

Do not induce vomiting unless directed to do so by medical personnel. Provide medical treatment.

**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

Possible irritation of airways. May cause drowsiness or dizziness.

**If on skin**

May cause an allergic skin reaction.

**If in eyes**

not available

**If swallowed**

not available

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

not available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, foam, powder. Water mist.

**Unsuitable extinguishing media**

Water - full jet.

**5.2. Special hazards arising from the substance or mixture**

Container: May burst if heated. Do not breathe smoke.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Stop leak if safe to do so. Remove all ignition sources. Use non-sparking tools. Use personal protective equipment for work. Prevent contact with skin and eyes.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. Provide sufficient ventilation.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Use only outdoors or in a well-ventilated area. Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air. Take action to prevent static discharges. Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas. Avoid release to the environment.

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

Keep only in original packaging. Store in a well-ventilated place. Keep away from sources of heating, ignition and direct sunlight.

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

not available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

**European Union**

**Commission Directive 2000/39/EC**

Substance name (component)	Type	Value	Note
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	275 mg/m <sup>3</sup>	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	550 mg/m <sup>3</sup>	
	OEL 15 minutes	100 ppm	
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/m <sup>3</sup>	
	OEL 8 hours	50 ppm	
	OEL 15 minutes	723 mg/m <sup>3</sup>	
	OEL 15 minutes	150 ppm	

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**DNEL**

## 2-methoxy-1-methylethyl acetate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Oral	1.67 mg/kg	Systemic chronic effects	
Consumers	Inhalation	33 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Inhalation	275 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	54.8 mg/kg	Systemic chronic effects	
Workers	Dermal	153.5 mg/kg	Systemic chronic effects	
Consumers	Inhalation	33 mg/m <sup>3</sup>	Local chronic effects	

## hexamethylene diisocyanate, oligomers

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	1 mg/m <sup>3</sup>	Local acute effects	
Workers	Inhalation	0.5 mg/m <sup>3</sup>	Local chronic effects	

## n-butyl acetate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Inhalation	300 mg/m <sup>3</sup>	Local acute effects	
Workers	Inhalation	600 mg/m <sup>3</sup>	Local acute effects	
Consumers	Inhalation	300 mg/m <sup>3</sup>	Systemic acute effects	
Workers	Inhalation	600 mg/m <sup>3</sup>	Systemic acute effects	
Consumers	Inhalation	35.7 mg/m <sup>3</sup>	Local chronic effects	
Workers	Inhalation	300 mg/m <sup>3</sup>	Local chronic effects	
Consumers	Inhalation	35.7 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Inhalation	300 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Oral	2 mg/kg bw/day	Systemic acute effects	
Consumers	Oral	2 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	6 mg/kg bw/day	Systemic acute effects	
Consumers	Dermal	6 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	11 mg/kg bw/day	Systemic chronic effects	

## Solvent naphtha (petroleum), light arom.

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Oral	11 mg/kg	Systemic chronic effects	
Consumers	Inhalation	32 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	11 mg/kg	Systemic chronic effects	
Workers	Inhalation	150 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Dermal	25 mg/kg	Systemic chronic effects	

**PNEC**

## 2-methoxy-1-methylethyl acetate

Route of exposure	Value	Determining method
Freshwater environment	0.635 mg/l	
Seawater	0.0635 mg/l	

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2-methoxy-1-methylethyl acetate

Route of exposure	Value	Determining method
Freshwater sediment	3.29 mg/kg	
Sea sediments	0.329 mg/kg	
Microorganisms in wastewater treatment plants	100 mg/l	
Soil (agricultural)	0.29 mg/kg	
Water (intermittent release)	6.35 mg/l	

hexamethylene diisocyanate, oligomers

Route of exposure	Value	Determining method
Freshwater environment	127 µg/l	
Seawater	12.7 µg/l	
Freshwater sediment	266700 mg/kg	
Water (intermittent release)	1270 µg/l	
Microorganisms in wastewater treatment plants	38.28 mg/l	
Soil (agricultural)	53200 mg/kg	

n-butyl acetate

Route of exposure	Value	Determining method
Freshwater environment	0.18 mg/l	
Seawater	0.018 mg/l	
Freshwater sediment	0.981 mg/kg of dry substance of sediment	
Water (intermittent release)	0.36 mg/l	
Soil (agricultural)	0.0903 mg/kg of dry substance of soil	
Microorganisms in wastewater treatment plants	35.6 mg/l	
Sea sediments	0.0981 mg/kg of dry substance of sediment	

**8.2. Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. Remove contaminated clothes. Contaminated skin should be washed thoroughly. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**

Tightly sealed goggles.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Category III. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Wear category II professional long-sleeved overalls and safety footwear (see Regulation (EU) 2016/425 and standard EN ISO 20344).

**Respiratory protection**

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Filter A. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. The protection provided by masks is in any case limited.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

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Appearance	
physical state	liquid at 20 °C
color	colourless
Odour	characteristic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	233 °C
Flash point	43 °C
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available
data not available	

**9.2. Other information**

Density	1.01 g/cm <sup>3</sup>
ignition temperature	data not available
content of organic solvents (VOC)	53.84 %
Max. VOC content in the product in its ready to use condition	544.0 g/l

**SECTION 10: Stability and reactivity****10.1. Reactivity**

When used in the standard way, there is not any dangerous reaction with other substances.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Vapours mixed up with air can be explosive.

**10.4. Conditions to avoid**

Protect against overheating. Take action to prevent static discharges. Remove all ignition sources.

**10.5. Incompatible materials**

not available

**10.6. Hazardous decomposition products**

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	8530 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>5000 mg/kg		Rat	
Inhalation	LC <sub>50</sub>	>10.6 mg/l	6 hour	Rat	

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Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	ATE	>20 mg/l			

hexamethylene diisocyanate, oligomers

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC <sub>50</sub>	0.39 mg/l	4 hour	Rat	
Oral	LD <sub>50</sub>	>2500 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit	

n-butyl acetate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>6400 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>5000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	21.1 mg/l	4 hour	Rat	

Solvent naphtha (petroleum), light arom.

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>5000 mg/kg		Rabbit	
Dermal	LD <sub>50</sub>	>3160 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>10.2 mg/l	4 hour	Rat	

**Skin corrosion/irritation**

Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data the classification criteria are not met.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.



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**Reproductive toxicity**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - single exposure**

Possible irritation of airways. May cause drowsiness or dizziness.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**

Harmful to aquatic life with long lasting effects.

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>	450 mg/l	48 hour	Daphnia (Daphnia magna)	

hexamethylene diisocyanate, oligomers

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	8.9 mg/l	96 hour	Fishes (Branchydanio rerio)	
EC <sub>50</sub>	127 mg/l	48 hour	Daphnia (Daphnia magna)	
EC <sub>50</sub>	>1000 mg/l	72 hour	Algae (Desmodesmus subspicatus)	
EC 10	370 mg/l	72 hour	Algae (Desmodesmus subspicatus)	

n-butyl acetate

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	18 mg/l	96 hour	Fishes (Pimephales promelas)	
EC <sub>50</sub>	44 mg/l	48 hour	Daphnia (Daphnia magna)	
EC <sub>50</sub>	397 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

Solvent naphtha (petroleum), light arom.

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	9.22 mg/l	96 hour	Fishes	
EC <sub>50</sub>	3.2 mg/l	48 hour	Daphnia (Daphnia magna)	

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Solvent naphtha (petroleum), light arom.

Parameter	Value	Time of exposure	Species	Environment
EC <sub>50</sub>	2.6 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

**Chronic toxicity**

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Species	Environment
NOEC	47.5 mg/l	14 day	Fishes (Oncorhynchus mykiss)	
NOEC	>100 mg/l	21 day	Daphnia (Daphnia magna)	
NOEC	>1000 mg/l	96 hour	Algae (Selenastrum capricornutum)	

**12.2. Persistence and degradability**

**Biodegradability**

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Environment	Result
	>10000 mg/l			Biodegradable
	83 %	28 day		

hexamethylene diisocyanate, oligomers

Parameter	Value	Time of exposure	Environment	Result
	0.1-100 mg/l			Hardly biodegradable

n-butyl acetate

Parameter	Value	Time of exposure	Environment	Result
	1000-10000 mg/l			Biodegradable
	83 %	28 day		

Solvent naphtha (petroleum), light arom.

Parameter	Value	Time of exposure	Environment	Result
	78 %	28 day		Biodegradable

Not available.

**12.3. Bioaccumulative potential**

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Kow	1.2				

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hexamethylene diisocyanate, oligomers

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Kow	5.54				
BCF	367.7				

n-butyl acetate

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Kow	2.3				
BCF	15.3				

Solvent naphtha (petroleum), light arom.

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Kow	>3.7				
BCF	>10				

Not available.

**12.4. Mobility in soil**

hexamethylene diisocyanate, oligomers

Parameter	Value	Environment	Surrounding temperature
K(soil-water)	7.3		

n-butyl acetate

Parameter	Value	Environment	Surrounding temperature
K(soil-water)	<3		

Solvent naphtha (petroleum), light arom.

Parameter	Value	Environment	Surrounding temperature
K(soil-water)	1.78		

Not available.

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

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Other adverse effects**

Not available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

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08 01 11 waste paint and varnish containing organic solvents or other hazardous substances \*

**Packaging waste type code**

15 01 10 packaging containing residues of or contaminated by hazardous substances \*

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

**SECTION 14: Transport information****14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT RELATED MATERIAL

**14.3. Transport hazard class(es)**

3 Flammable liquids

**14.4. Packing group**

III - substances presenting low danger

**14.5. Environmental hazards**

No.

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not available

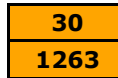
**Additional information**

Special instructions: A3, A72, A192

Hazard identification No.

UN number

Safety signs



3

**Road transport - ADR**

Limited quantities

5 L

Transport category

3

Tunnel restriction code

(D/E)

**Air transport - ICAO/IATA**

Packaging instructions passenger

355

Cargo packaging instructions

366

**Marine transport - IMDG**

EmS (emergency plan)

F-E, S-E

Marine Pollutant

No

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

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**15.2. Chemical safety assessment**  
not available**SECTION 16: Other information****A list of standard risk phrases used in the safety data sheet**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Guidelines for safe handling used in the safety data sheet**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378	In case of fire: Use powder extinguisher/foam/carbon dioxide to extinguish.

**A list of additional standard phrases used in the safety data sheet**

EUH204	Contains isocyanates. May produce an allergic reaction.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level

**HEADLIGHT HÄRTER**

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Revision date			

log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquid
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**The changes (which information has been added, deleted or modified)**

The version 2.0 replaces the SDS version from 30. 7. 2015. Changes were made in sections 2, 3, 8, 9, 11, 12, 15 and 16.

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.