

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS semi-matt (B)

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

#### 1.1 Product identifier

Product code : 47353905

Trade name : IDEAL hardener for 2K polyurethane parquet lacquer DS semi-matt (B)

Unique Formula Identifier (UFI) : ACSK-R09E-K008-QAHU

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

Use of the Substance/Mixture : SU19 Building and construction work  
Professional and consumer use of coatings, Roller application or brushing, Non industrial spraying  
PC9a Coatings and paints, thinners, paint removers

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

Company : Helios TBLUS d.o.o.  
Količevo 65  
1230 Domžale  
Slovenia

Telephone Company : 00386 1 722 4383

Telefax Company : 1 722 4310

Responsible/issuing person : 00386 1 722 4383  
productsafety@helios.si

#### 1.4 Emergency telephone number

Call 999 for emergency medical attention

professionals only: National Poison Information Service (NPIS) 24h national number 0844 892 0111

consumer: National Health Service (NHS) 24h national number, England & Scotland 111

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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 3 H226: Flammable liquid and vapour.

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Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.

### 2.2 Label elements

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

Hazard pictograms : 

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H336 May cause drowsiness or dizziness.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

#### Prevention:

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.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste

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disposal plant.

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

homopolymer aliphatic aromatic  
2-methoxy-1-methylethyl acetate  
hexamethylene-di-isocyanate  
4-methyl-m-phenylene diisocyanate

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
homopolymer aliphatic aromatic	26426-91-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 30 - < 50
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 20 - < 30
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	>= 20 - < 30
4-methyl-m-phenylene diisocyanate	584-84-9 209-544-5 615-006-00-4 01-2119486974-18	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335	>= 0,25 - < 1

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		(Respiratory system) Aquatic Chronic 3; H412	
		specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	
hexamethylene-di-isocyanate	822-06-0 212-485-8 615-011-00-1 01-2119457571-37	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 0,1 - < 0,5
		specific concentration limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 %	

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

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If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

Risks : May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : 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 allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away

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from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-methoxy-1-methylethyl acetate	108-65-6	STEL	100 ppm 550 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 275 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 274 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	100 ppm 548 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m <sup>3</sup>	GB EH40
		STEL	200 ppm 966 mg/m <sup>3</sup>	GB EH40
		STEL	150 ppm	2019/1831/E

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			723 mg/m <sup>3</sup>	U
Further information: Indicative				
		TWA	50 ppm 241 mg/m <sup>3</sup>	2019/1831/E U
Further information: Indicative				
hexamethylene-diisocyanate	822-06-0	TWA	0,02 mg/m <sup>3</sup> (NCO)	GB EH40
Further information: Capable of causing occupational asthma.				
		STEL	0,07 mg/m <sup>3</sup> (NCO)	GB EH40
Further information: Capable of causing occupational asthma.				
4-methyl-m-phenylene diisocyanate	584-84-9	TWA	0,02 mg/m <sup>3</sup> (NCO)	GB EH40
Further information: Capable of causing occupational asthma.				
		STEL	0,07 mg/m <sup>3</sup> (NCO)	GB EH40
Further information: Capable of causing occupational asthma.				

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
hexamethylene-diisocyanate	822-06-0	isocyanate-derived diamine (Isocyanates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT
4-methyl-m-phenylene diisocyanate	584-84-9	isocyanate-derived diamine (Isocyanates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2-methoxy-1-methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	550 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	33 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	33 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
n-butyl acetate	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	600 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	600 mg/m <sup>3</sup>



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	Workers	Inhalation	Long-term systemic effects	48 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	300 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	300 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	300 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	12 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	35,7 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	3,4 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	2 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	7 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	11 mg/kg bw/day
hexamethylene-diisocyanate	Workers	Inhalation	Long-term systemic effects	0,035 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	0,07 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,035 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	0,07 mg/m <sup>3</sup>
4-methyl-m-phenylene diisocyanate	Workers	Inhalation	Long-term systemic effects	0,035 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	0,14 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,035 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	0,14 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-methoxy-1-methylethyl acetate	Soil	0,29 mg/kg dry weight (d.w.)
	Marine water	0,0635 mg/l
	Fresh water	0,635 mg/l
	Marine sediment	0,329 mg/kg dry weight (d.w.)
	Fresh water sediment	3,29 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0,00635 mg/l

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n-butyl acetate	Soil	0,0903 mg/kg dry weight (d.w.)
	Marine water	0,018 mg/l
	Fresh water	0,18 mg/l
	Marine sediment	0,0981 mg/kg dry weight (d.w.)
	Fresh water sediment	0,981 mg/kg dry weight (d.w.)
	Sewage treatment plant	35,6 mg/l
	Intermittent use/release	0,36 mg/l
hexamethylene-di-isocyanate	Soil	0,0026 mg/kg dry weight (d.w.)
	Marine water	0,00774 mg/l
	Fresh water	0,0774 mg/l
	Marine sediment	0,001344 mg/kg dry weight (d.w.)
	Fresh water sediment	0,01334 mg/kg dry weight (d.w.)
	Sewage treatment plant	8,42 mg/l
	Intermittent use/release	0,774 mg/l
4-methyl-m-phenylene diisocyanate	Soil	1 mg/kg dry weight (d.w.)
	Marine water	0,00125 mg/l
	Fresh water	0,0125 mg/l
	Sewage treatment plant	1 mg/l
	Intermittent use/release	0,125 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Directive : Equipment should conform to EN 374

Material : Viton®

Rate of permeability : > 480 min

Protective index : Class 6

Material : PVA

Rate of permeability : > 480 min

Protective index : Class 6

Glove thickness : > 0,5 mm

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.  
The obtained break through times according to EN 374 Part III are not measured under normal operating conditions.  
Therefore a maximum usage time of 50% of the break

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through time is recommended. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Nitrile gloves are not suitable. Take note of the information given by the producer concerning permeability, degradation and break through times, and of special work

Skin and body protection : Long sleeved clothing  
Safety shoes

Respiratory protection : In case of inadequate ventilation wear respiratory protection.  
EN-143; EN-149; EN-529

Filter type : A/P2

Protective measures : Wash thoroughly after handling.  
Avoid contact with skin, eyes and clothing.  
Keep away from food, drink and animal feedingstuffs.

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### SECTION 9: Physical and chemical properties

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

Physical state : liquid

Colour : in accordance with the product description

Odour : characteristic

Odour Threshold : No data available

Melting point/freezing point : -78,0 °C  
(calculation method (principal components, lowest value))

Boiling point/boiling range : 126 °C (calculation method (principal components, lowest value))

Flammability : Static-accumulating flammable liquid., Combustible Solids

Upper explosion limit / Upper flammability limit : 7,5 %(V) (calculation method (principal components, highest value))

Lower explosion limit / Lower flammability limit : 1,2 %(V) (calculation method (principal components, highest value))

Flash point : 32 °C

Ignition temperature : 315 °C (calculation method (principal components, highest value))

Decomposition temperature  
Decomposition temperature : No decomposition if stored and applied as directed.  
Hazardous decomposition products formed under fire conditions.

pH : Not applicable

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Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 20,5 mm <sup>2</sup> /s (40 °C)
Flow time	: 15 - 17 s at 23 °C Method: DIN 53211 (CF4)
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: Description: miscible with most organic solvents
Partition coefficient: n-octanol/water	: log Pow: 1,81 (calculation method (principal components, highest value))
Density	: 1,055 - 1,065 g/cm <sup>3</sup>

### 9.2 Other information

Explosives	: Not applicable
Oxidizing properties	: Sustains combustion

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: No decomposition if stored and applied as directed.
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Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid	: Heat, flames and sparks.
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### 10.5 Incompatible materials

Materials to avoid	: Strong oxidizing agents
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### 10.6 Hazardous decomposition products

Adequate ventilation is required.  
Heating can release vapours which can be ignited.  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

#### Components:

##### **2-methoxy-1-methylethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): > > 2.000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Test atmosphere: vapour  
LC0 (Rat): 2000 ppm  
Exposure time: 3 h

Acute dermal toxicity : LD50 (Rabbit): > > 2.000 mg/kg

##### **n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): >= 10.760 mg/kg  
Acute dermal toxicity : LD50 (Rabbit): >= 5.000 mg/kg

##### **4-methyl-m-phenylene diisocyanate:**

Acute inhalation toxicity : Test atmosphere: dust/mist  
Assessment: The component/mixture is highly toxic after short term inhalation.

##### **hexamethylene-di-isocyanate:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.  
Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short term inhalation.

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### **Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

#### **Product:**

Remarks : May cause skin irritation and/or dermatitis.

#### **Components:**

##### **4-methyl-m-phenylene diisocyanate:**

Result : irritating

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Product:**

Remarks : May cause irreversible eye damage.

#### **Components:**

##### **homopolymer aliphatic aromatic:**

Result : Eye irritation

##### **4-methyl-m-phenylene diisocyanate:**

Result : Eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### **Product:**

Remarks : Causes sensitisation.

#### **Components:**

##### **homopolymer aliphatic aromatic:**

Result : Probability or evidence of skin sensitisation in humans

##### **4-methyl-m-phenylene diisocyanate:**

Result : Probability of respiratory sensitisation in humans based on animal testing

Result : Probability or evidence of skin sensitisation in humans

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### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **4-methyl-m-phenylene diisocyanate:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

May cause drowsiness or dizziness.

### **Components:**

#### **2-methoxy-1-methylethyl acetate:**

Assessment : May cause drowsiness or dizziness.

#### **n-butyl acetate:**

Assessment : May cause drowsiness or dizziness.

#### **4-methyl-m-phenylene diisocyanate:**

Assessment : May cause respiratory irritation.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## 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.

### **Further information**

#### **Product:**

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **2-methoxy-1-methylethyl acetate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l  
Exposure time: 96 h  
  
NOEC : 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 : 408 mg/l  
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : EC10: 47,5 mg/l

##### **n-butyl acetate:**

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l  
  
EC50 (Desmodesmus subspicatus (green algae)): >= 647,7 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l  
Exposure time: 40 h

##### **4-methyl-m-phenylene diisocyanate:**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

##### Components:

##### **2-methoxy-1-methylethyl acetate:**

Biodegradability : Readily biodegradable.

##### **n-butyl acetate:**

Biodegradability : Result: Biodegradable  
Biodegradation: 83 %  
Exposure time: 28 d



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Method: OECD Test Guideline 301D

Stability in water : Degradation half life: 78 d  
pH: 8  
Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

### 12.3 Bioaccumulative potential

#### Components:

##### **2-methoxy-1-methylethyl acetate:**

Partition coefficient: n-  
octanol/water : log Pow: 1,2 (20 °C)  
pH: 6,8

##### **n-butyl acetate:**

Bioaccumulation : Bioconcentration factor (BCF): 15  
Bioaccumulation is unlikely.

Partition coefficient: n-  
octanol/water : log Pow: 1,81

### 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..

### 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

#### Product:

Additional ecological information : No data available

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- |                        |   |                                                                                                                                                                        |
|------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | : | Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on, the empty drum.               |
| Waste Code             | : | 08 01 11, waste paint and varnish containing organic solvents or other hazardous substances                                                                            |
- 

### SECTION 14: Transport information

#### 14.1 UN number or ID number

- |      |   |         |
|------|---|---------|
| ADN  | : | UN 1263 |
| ADR  | : | UN 1263 |
| RID  | : | UN 1263 |
| IMDG | : | UN 1263 |
| IATA | : | UN 1263 |

#### 14.2 UN proper shipping name

- |      |   |       |
|------|---|-------|
| ADN  | : | PAINT |
| ADR  | : | PAINT |
| RID  | : | PAINT |
| IMDG | : | PAINT |
| IATA | : | Paint |

#### 14.3 Transport hazard class(es)

- |      |   |   |
|------|---|---|
| ADN  | : | 3 |
| ADR  | : | 3 |
| RID  | : | 3 |
| IMDG | : | 3 |
| IATA | : | 3 |

#### 14.4 Packing group

- |     |   |  |
|-----|---|--|
| ADN | : |  |
|-----|---|--|

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Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

### ADR

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

### RID

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

### IMDG

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

### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 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.

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

Not applicable for product as supplied.

## 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, preparations and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	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

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

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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 is not required for this substance.

## SECTION 16: Other information

### Full text of H-Statements

H226	:	Flammable liquid and vapour.
H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.

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H351 : Suspected of causing cancer.  
H412 : Harmful to aquatic life with long lasting effects.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Carc. : Carcinogenicity  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Resp. Sens. : Respiratory sensitisation  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
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  
2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 BAT : UK. Biological monitoring guidance values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
2019/1831/EU / TWA : Limit Value - eight hours  
2019/1831/EU / STEL : Short term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European 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)

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tative) 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Flam. Liq. 3	H226
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
STOT SE 3	H336

#### Classification procedure:

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

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