



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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AQUENCE CATALYST R 397 6\*1,5KG

SDS No. : 106560

V006.0

Revision: 02.08.2023

printing date: 21.09.2023

Replaces version from: 14.02.2023

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

#### 1.1. Product identifier

AQUENCE CATALYST R 397 6\*1,5KG

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

Intended use:

Wood adhesives

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

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

SDSinfo.Adhesive@henkel.com

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: [technical.services@henkel.co.uk](mailto:technical.services@henkel.co.uk)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Acute toxicity	Category 4
H332 Harmful if inhaled.	
Route of Exposure: Inhalation	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Specific target organ toxicity - single exposure	Category 3
H335 May cause respiratory irritation.	
Target organ: respiratory tract irritation	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

#### 2.2. Label elements

##### Label elements (CLP):

**Hazard pictogram:****Contains**

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked

Hexamethylene diisocyanate

**Signal word:**

Warning

**Hazard statement:**

H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement:**  
**Prevention**

P261 Avoid breathing mist/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.

**2.3. Other hazards**

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

### SECTION 3: Composition/information on ingredients

**3.2. Mixtures****Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	80- 100 %	Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Acute Tox. 4, Inhalation, H332 STOT SE 3, H335	inhalation:ATE = 1,5 mg/l;dust/mist	
Dibutyl hydrogen phosphate 107-66-4 203-509-8 01-2119974583-26	0,1- < 1 %	Skin Corr. 1B, H314 Carc. 2, H351		
Hexamethylene diisocyanate 822-06-0 212-485-8 01-2119457571-37	0,05- < 0,1 %	Acute Tox. 4, Oral, H302 Acute Tox. 1, Inhalation, H330 Skin Irrit. 2, H315 Skin Sens. 1, H317 Resp. Sens. 1, H334 STOT SE 3, H335 Eye Irrit. 2, H319	Resp. Sens. 1; H334; C $\geq$ 0,5 % Skin Sens. 1; H317; C $\geq$ 0,5 %	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:

Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Rash, Urticaria.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

All common extinguishing agents are suitable.

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

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

In case of fire toxic gases can be released.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

## SECTION 6: Accidental release measures

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

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

Danger of slipping on spilled product.

### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

Inform authorities in the event of product spillage to water courses or sewage systems.

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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

Store only in the original container.

Ensure good ventilation/extraction.

Keep container tightly sealed and store in a frost free place.

Store in a cool, dry place.

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

Wood adhesives

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Dibutyl hydrogen phosphate 107-66-4 [DIBUTYL HYDROGEN PHOSPHATE]	1	8,7	Time Weighted Average (TWA):		EH40 WEL
Dibutyl hydrogen phosphate 107-66-4 [DIBUTYL HYDROGEN PHOSPHATE]	2	17	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Hexamethylene diisocyanate 822-06-0 [ISOCYANATES, ALL (AS -NCO)]		0,02	Time Weighted Average (TWA):		EH40 WEL
Hexamethylene diisocyanate 822-06-0 [ISOCYANATES, ALL (AS -NCO)]		0,07	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

**Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Dibutyl hydrogen phosphate 107-66-4 [DIBUTYL HYDROGEN PHOSPHATE]		5	Time Weighted Average (TWA):		IR_OEL
Dibutyl hydrogen phosphate 107-66-4 [DIBUTYL HYDROGEN PHOSPHATE]	2	10	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Hexamethylene diisocyanate 822-06-0 [HEXAMETHYLENE DIISOCYANATE]	0,005		Time Weighted Average (TWA):		IR_OEL

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Hexamethylene diisocyanate 822-06-0	sewage treatment plant (STP)		8,42 mg/l				
Hexamethylene diisocyanate 822-06-0	aqua (freshwater)		0,049 mg/l				
Hexamethylene diisocyanate 822-06-0	aqua (marine water)		0,005 mg/l				
Hexamethylene diisocyanate 822-06-0	sediment (freshwater)				0,674 mg/kg		
Hexamethylene diisocyanate 822-06-0	sediment (marine water)				0,067 mg/kg		
Hexamethylene diisocyanate 822-06-0	Soil				0,523 mg/kg		

**Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Dibutyl hydrogen phosphate 107-66-4	General population	oral	Long term exposure - systemic effects		0,22 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	General population	oral	Acute/short term exposure - systemic effects		0,88 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	Workers	inhalation	Acute/short term exposure - systemic effects		5 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	Workers	inhalation	Long term exposure - local effects		1 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	Workers	inhalation	Acute/short term exposure - local effects		1 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	General population	inhalation	Long term exposure - systemic effects		0,31 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	General population	inhalation	Acute/short term exposure - systemic effects		1,24 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	Workers	inhalation	Long term exposure - systemic effects		1,25 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	Workers	dermal	Long term exposure - systemic effects		0,44 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	General population	dermal	Long term exposure - systemic effects		0,22 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	General population	dermal	Acute/short term exposure - systemic effects		0,88 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	Workers	dermal	Acute/short term exposure - systemic effects		1,78 mg/kg	
Hexamethylene diisocyanate 822-06-0	Workers	inhalation	Acute/short term exposure - local effects		0,07 mg/m3	
Hexamethylene diisocyanate 822-06-0	Workers	inhalation	Long term exposure - local effects		0,035 mg/m3	
Hexamethylene diisocyanate 822-06-0	Workers	dermal	Long term exposure - systemic effects			
Hexamethylene diisocyanate 822-06-0	Workers	dermal	Acute/short term exposure - systemic effects			
Hexamethylene diisocyanate 822-06-0	Workers	dermal	Long term exposure - local effects			
Hexamethylene diisocyanate 822-06-0	Workers	dermal	Acute/short term exposure - local effects			

**Biological Exposure Indices:**

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Hexamethylene diisocyanate 822-06-0 [ISOCYANATES (APPLIES TO HDI, IPDI, TDI AND MDI)]	Isocyanate-derived diamine	Creatinine in urine	Sampling time: At the end of the period of exposure.		UKEH40BMG V		

**8.2. Exposure controls:**

Engineering controls:

Use only in well ventilated areas.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

Delivery form	liquid
Colour	Clear
Odor	odourless
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	-51 °C (-59.8 °F)
Initial boiling point	Not applicable, Decomposes before boiling point is reached
Flammability	Not applicable
	Non flammable product (flash point is greater than 93°C)
Explosive limits	Not applicable, The product is not flammable.
Flash point	228 °C (442.4 °F); no method / method unknown
Auto-ignition temperature	Not applicable, The product is not flammable.
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use

pH	Not applicable, Product is non-soluble (in water).
Viscosity (kinematic) (40 °C (104 °F); )	652 - 1.739 mm <sup>2</sup> /s
Viscosity, dynamic (Brookfield; Instrument: RVT; 20 °C (68 °F); speed of rotation: 20 min <sup>-1</sup> ; Spindle No: 3)	950 - 1.550 mPa.s viscosity Brookfield RVT
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Not miscible. Reacts slowly with water to liberate carbon dioxide gas.
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure (20 °C (68 °F))	Mixture
Density (20 °C (68 °F))	0,007 hPa Literature value, Diphenyl-methane-diisocyanate, (MDI)
Relative vapour density: (20 °C)	1,15 g/cm <sup>3</sup> no method / method unknown
Particle characteristics	> 1
	Not applicable
	Product is a liquid

## 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reaction with water, alcohols, amines.

Reacts with water: Pressure built up in closed vessel (CO<sub>2</sub>).

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

Humidity

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

At higher temperatures isocyanate may be released.

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!



## SECTION 11: Toxicological information

### General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

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

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	LD50	> 2.000 mg/kg	rat	not specified
Dibutyl hydrogen phosphate 107-66-4	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Hexamethylene diisocyanate 822-06-0	LD50	746 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Hexamethylene diisocyanate 822-06-0	LD50	> 7.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	Acute toxicity estimate (ATE)	1,5 mg/l	dust/mist			Expert judgement
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	LC50	0,39 mg/l	dust/mist		rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Hexamethylene diisocyanate 822-06-0	LC50	0,124 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	slightly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Hexamethylene diisocyanate 822-06-0	sensitising	Respiratory sensitisation	guinea pig	not specified
Hexamethylene diisocyanate 822-06-0	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	negative	bacterial reverse mutation assay (e.g Ames test)			OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hexamethylene diisocyanate 822-06-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Hexamethylene diisocyanate 822-06-0	negative	mammalian cell gene mutation assay	with and without		not specified
Hexamethylene diisocyanate 822-06-0	negative	inhalation: vapour		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Hexamethylene diisocyanate 822-06-0	not carcinogenic	inhalation: vapour	2 y 6 h/d, 5 d/w	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Hexamethylene diisocyanate 822-06-0	NOAEL P 0.3 ppm NOAEL F1 0.3 ppm	screening	inhalation: vapour	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Hexamethylene diisocyanate 822-06-0	NOAEL 0.005 ppm	inhalation: vapour	2 y 6 h/d, 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

**SECTION 12: Ecological information****General ecological information:**

Do not empty into drains, soil or bodies of water.

**12.1. Toxicity****Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	LC50	17,8 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dibutyl hydrogen phosphate 107-66-4	LC50	> 100 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	EU Method C.1 (Acute Toxicity for Fish)
Hexamethylene diisocyanate 822-06-0	LC50	82,8 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	EU Method C.1 (Acute Toxicity for Fish)

**Toxicity (aquatic invertebrates):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	EC50	58 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dibutyl hydrogen phosphate 107-66-4	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hexamethylene diisocyanate 822-06-0	EC50	89,1 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)

**Chronic toxicity (aquatic invertebrates):**

No data available.

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Algal Growth Inhibition Test)
Dibutyl hydrogen phosphate 107-66-4	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Dibutyl hydrogen phosphate 107-66-4	EC10	76 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Hexamethylene diisocyanate 822-06-0	EC50	> 77,4 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Hexamethylene diisocyanate 822-06-0	NOEC	11,7 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	EU Method C.3 (Algal Inhibition test)

#### Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3	EC 50	> 10.000 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Dibutyl hydrogen phosphate 107-66-4	EC 50	> 10.000 mg/l	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Hexamethylene diisocyanate 822-06-0	EC 50	842 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

#### 12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol mono-Bu ether-blocked 125252-47-3		no data	2 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Dibutyl hydrogen phosphate 107-66-4	not readily biodegradable.	aerobic	12 %	28 day	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Dibutyl hydrogen phosphate 107-66-4	inherently biodegradable	aerobic	> 98 %	28 day	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Hexamethylene diisocyanate 822-06-0	not readily biodegradable.	aerobic	42 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

#### 12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Dibutyl hydrogen phosphate 107-66-4	< 7	42 day	25 °C	Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
Hexamethylene diisocyanate 822-06-0	57,6			calculated	QSAR (Quantitative Structure Activity Relationship)

#### 12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Dibutyl hydrogen phosphate 107-66-4	2,89		QSAR (Quantitative Structure Activity Relationship)
Hexamethylene diisocyanate 822-06-0	3,20	25 °C	QSAR (Quantitative Structure Activity Relationship)

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

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Hexamethylene diisocyanate 822-06-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

08 05 01

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

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.2. UN proper shipping name**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.4. Packing group**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.5. Environmental hazards**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.6. Special precautions for user**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Not applicable

Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable

Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable

VOC content 0 %  
(2010/75/EU)

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

**SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H412 Harmful to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

**Further information:**

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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