



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

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LOCTITE ECCOBOND UV 9060F known as ECCOBOND UV9060F
EFD 30ml E/C/J

SDS No. : 454053
V006.1

Revision: 24.04.2025

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Replaces version from: 27.02.2025

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

1.1. Product identifier

LOCTITE ECCOBOND UV 9060F known as ECCOBOND UV9060F EFD 30ml E/C/J
UFI: 88V7-4XS8-R20H-X4JH

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

Intended use:

Acrylics

1.3. Details of the supplier of the safety data sheet

Henkel Ireland
Operations and Research Limited
Tallaght Business Park, Whitestown
24 Dublin

Ireland

Phone: +353 (0353) 1 404 6444

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

00353 14046280

National Poisons Information Centre: Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Acute toxicity	Category 4
H302 Harmful if swallowed.	
Route of Exposure: Oral	
Serious eye damage	Category 1
H318 Causes serious eye damage.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Toxic to reproduction	Category 1B
H360F May damage fertility.	
Chronic hazards to the aquatic environment	Category 2
H411 Toxic to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Hexane, 1,6-diisocyanato-, homopolymer, 2-hydroxyethyl acrylate-blocked

Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23

Isobornyl acrylate

2-Propenamide, N,N-dimethyl-

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide

4-isocyanatosulphonyltoluene

Triphenyl phosphite

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Signal word:

Danger

Hazard statement:

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H360F May damage fertility.

H411 Toxic to aquatic life with long lasting effects.

Supplemental information

Contains isocyanates. May produce an allergic reaction.
Restricted to professional users.

**Precautionary statement:
Prevention**

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement:
Response**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

None if used properly.

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, 2-hydroxyethyl acrylate-blocked 264888-31-5	25- < 50 %	Aquatic Chronic 3, H412 Skin Sens. 1, H317		
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2 931-274-8 500-060-2 01-2119485796-17	10- < 20 %	Acute Tox. 4, Inhalation, H332 STOT SE 3, H335 Skin Sens. 1, H317	inhalation:ATE = 3,9 mg/l;dust/mist	
Isobornyl acrylate 5888-33-5 227-561-6 01-2119957862-25	10- < 20 %	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 1 M chronic = 1	
2-Propenamide, N,N-dimethyl- 2680-03-7 220-237-5 01-2119971262-39	10- < 20 %	Acute Tox. 3, Oral, H301 Acute Tox. 3, Dermal, H311 Eye Dam. 1, H318 Skin Sens. 1B, H317	oral:ATE = 216 mg/kg	
Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 246-386-6 01-2120000336-73	1- < 5 %	Aquatic Chronic 3, H412 Acute Tox. 4, Oral, H302 STOT RE 2, H373		
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8 278-355-8 01-2119972295-29	1- < 3 %	Aquatic Chronic 2, H411 Skin Sens. 1B, H317 Repr. 1B, H360Fd		SVHC
4-isocyanatosulphonyltoluene 4083-64-1 223-810-8 01-2119980050-47	0,1- < 1 %	Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334	Eye Irrit. 2; H319; C >= 5 % STOT SE 3; H335; C >= 5 % Skin Irrit. 2; H315; C >= 5 %	
Triphenyl phosphite 101-02-0 202-908-4 01-2119511213-58	0,1- < 1 %	Acute Tox. 4, Oral, H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT RE 2, H373 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Skin Irrit. 2; H315; C >= 5 % Eye Irrit. 2; H319; C >= 5 % ===== dermal:ATE = 2.500 mg/kg	
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7 423-340-5 01-2119489401-38 01-2119936813-33	0,1- < 1 %	Skin Sens. 1A, H317 Aquatic Chronic 4, H413		

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**

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

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.

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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:

Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Keep away from sources of ignition.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.
See advice in section 8
Do not inhale vapors and fumes.

Hygiene measures:

Good industrial hygiene practices should be observed.
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.
Refer to Technical Data Sheet.

7.3. Specific end use(s)

Acrylics

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

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
HDI oligomers, isocyanurate 28182-81-2 [ISOCYANATES, ALL, EXCEPT METHYL ISOCYANATE (CAS NO. 624-83-9) AND TOLUENE (2,4 OR 2,6 DIISOCYANATE (CAS NO. 584-84-9, 91-08-7)]		0,02	Time Weighted Average (TWA):		IR_OEL
HDI oligomers, isocyanurate 28182-81-2 [ISOCYANATES, ALL, EXCEPT METHYL ISOCYANATE (CAS NO. 624-83-9) AND TOLUENE (2,4 OR 2,6 DIISOCYANATE (CAS NO. 584-84-9, 91-08-7)]		0,07	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
p-Toluenesulphonyl isocyanate 4083-64-1 [ISOCYANATES, ALL, EXCEPT METHYL ISOCYANATE (CAS NO. 624-83-9) AND TOLUENE (2,4 OR 2,6 DIISOCYANATE (CAS NO. 584-84-9, 91-08-7)]		0,07	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
p-Toluenesulphonyl isocyanate 4083-64-1 [ISOCYANATES, ALL, EXCEPT METHYL ISOCYANATE (CAS NO. 624-83-9) AND TOLUENE (2,4 OR 2,6 DIISOCYANATE (CAS NO. 584-84-9, 91-08-7)]		0,02	Time Weighted Average (TWA):		IR_OEL

Occupational Exposure LimitsValid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
HDI oligomers, isocyanurate 28182-81-2 [ISOCYANATES, ALL (AS -NCO)]		0,02	Time Weighted Average (TWA):		EH40 WEL
HDI oligomers, isocyanurate 28182-81-2 [ISOCYANATES, ALL (AS -NCO)]		0,07	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Zeolites 1318-02-1 [ALUMINIUM OXIDES, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Zeolites 1318-02-1 [ALUMINIUM OXIDES, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
p-Toluenesulphonyl isocyanate 4083-64-1 [ISOCYANATES, ALL (AS -NCO)]		0,02	Time Weighted Average (TWA):		EH40 WEL
p-Toluenesulphonyl isocyanate 4083-64-1 [ISOCYANATES, ALL (AS -NCO)]		0,07	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
HDI oligomers, isocyanurate 28182-81-2	aqua (freshwater)		0,127 mg/l				
HDI oligomers, isocyanurate 28182-81-2	aqua (marine water)		0,013 mg/l				
HDI oligomers, isocyanurate 28182-81-2	aqua (intermittent releases)		1,27 mg/l				
HDI oligomers, isocyanurate 28182-81-2	sediment (freshwater)				266701 mg/kg		
HDI oligomers, isocyanurate 28182-81-2	sediment (marine water)				26670 mg/kg		
HDI oligomers, isocyanurate 28182-81-2	Soil				53183 mg/kg		
HDI oligomers, isocyanurate 28182-81-2	sewage treatment plant (STP)		88 mg/l				
Isobornyl acrylate 5888-33-5	aqua (freshwater)		0,001 mg/l				
Isobornyl acrylate 5888-33-5	aqua (intermittent releases)		0,007 mg/l				
Isobornyl acrylate 5888-33-5	aqua (marine water)		0,0001 mg/l				
Isobornyl acrylate 5888-33-5	sewage treatment plant (STP)		2 mg/l				
Isobornyl acrylate 5888-33-5	sediment (freshwater)				0,145 mg/kg		
Isobornyl acrylate 5888-33-5	sediment (marine water)				0,0145 mg/kg		
Isobornyl acrylate 5888-33-5	Soil				0,0285 mg/kg		
Isobornyl acrylate 5888-33-5	Predator						no potential for bioaccumulation
N,N-Dimethylacrylamide 2680-03-7	aqua (freshwater)		0,12 mg/l				
N,N-Dimethylacrylamide 2680-03-7	aqua (marine water)		0,012 mg/l				
N,N-Dimethylacrylamide 2680-03-7	aqua (intermittent releases)		1,2 mg/l				
N,N-Dimethylacrylamide 2680-03-7	sediment (freshwater)				0,509 mg/kg		
N,N-Dimethylacrylamide 2680-03-7	sediment (marine water)				0,051 mg/kg		
N,N-Dimethylacrylamide 2680-03-7	Soil				0,0313 mg/kg		
N,N-Dimethylacrylamide 2680-03-7	sewage treatment plant (STP)		18 mg/l				
N,N-Dimethylacrylamide 2680-03-7	Predator						no potential for bioaccumulation
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	aqua (freshwater)		0,229 mg/l				
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	Freshwater - intermittent		0,184 mg/l				
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	aqua (marine water)		0,0229 mg/l				
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	Marine water - intermittent		0,0184 mg/l				
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	sewage treatment plant (STP)		19,4 mg/l				
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	sediment (freshwater)				8,87 mg/kg		
2,2-Dimethoxy-1,2-diphenylethan-1-one	sediment				0,887		

24650-42-8	(marine water)				mg/kg		
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	Soil				1,64 mg/kg		
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	aqua (freshwater)		0,0014 mg/l				
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	aqua (marine water)		0,00014 mg/l				
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	Freshwater - intermittent		0,014 mg/l				
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	Marine water - intermittent		0,0014 mg/l				
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	sediment (freshwater)				0,115 mg/kg		
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	sediment (marine water)				0,0115 mg/kg		
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	Soil				0,0222 mg/kg		
p-Toluenesulphonyl isocyanate 4083-64-1	aqua (freshwater)		0,03 mg/l				
p-Toluenesulphonyl isocyanate 4083-64-1	aqua (marine water)		0,003 mg/l				
p-Toluenesulphonyl isocyanate 4083-64-1	sewage treatment plant (STP)		0,4 mg/l				
p-Toluenesulphonyl isocyanate 4083-64-1	sediment (freshwater)				0,172 mg/kg		
p-Toluenesulphonyl isocyanate 4083-64-1	sediment (marine water)				0,017 mg/kg		
p-Toluenesulphonyl isocyanate 4083-64-1	Soil				0,017 mg/kg		
Triphenyl phosphite 101-02-0	aqua (freshwater)		0,0077 mg/l				
Triphenyl phosphite 101-02-0	Sewage treatment plant		2,1 mg/l				
Triphenyl phosphite 101-02-0	Soil				0,136 mg/kg		
Phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide 162881-26-7	aqua (freshwater)		0,001 mg/l				
Phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide 162881-26-7	aqua (intermittent releases)		0,001 mg/l				
Phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide 162881-26-7	aqua (marine water)		0,001 mg/l				
Phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide 162881-26-7	sewage treatment plant (STP)		1 mg/l				
Phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide 162881-26-7	sediment (freshwater)				0,712 mg/kg		
Phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide 162881-26-7	sediment (marine water)				0,712 mg/kg		
Phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide 162881-26-7	Soil				20 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
HDI oligomers, isocyanurate 28182-81-2	Workers	Inhalation	Acute/short term exposure - local effects		1 mg/m ³	
HDI oligomers, isocyanurate 28182-81-2	Workers	Inhalation	Long term exposure - local effects		0,5 mg/m ³	
HDI oligomers, isocyanurate 28182-81-2	Workers	dermal	Long term exposure - local effects			
HDI oligomers, isocyanurate 28182-81-2	Workers	dermal	Acute/short term exposure - local effects			
Isobornyl acrylate 5888-33-5	Workers	inhalation	Long term exposure - systemic effects		4,9 mg/m ³	no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	Workers	dermal	Long term exposure - systemic effects		1,39 mg/kg	no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	Workers	dermal	Long term exposure - local effects			no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	Workers	dermal	Acute/short term exposure - local effects			no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	General population	inhalation	Long term exposure - systemic effects		1,45 mg/m ³	no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	General population	dermal	Long term exposure - systemic effects		0,83 mg/kg	no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	General population	dermal	Long term exposure - local effects			no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	General population	dermal	Long term exposure - local effects			no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	General population	oral	Long term exposure - systemic effects		0,83 mg/kg	no potential for bioaccumulation
N,N-Dimethylacrylamide 2680-03-7	Workers	dermal	Long term exposure - systemic effects		0,357 mg/kg 357 µg/kg bw/day	no potential for bioaccumulation
N,N-Dimethylacrylamide 2680-03-7	Workers	inhalation	Long term exposure - systemic effects		0,207 mg/m ³	no potential for bioaccumulation
N,N-Dimethylacrylamide 2680-03-7	General population	oral	Long term exposure - systemic effects		0,0147 mg/kg 14,7 µg/kg bw/day	no potential for bioaccumulation
N,N-Dimethylacrylamide 2680-03-7	General population	dermal	Long term exposure - systemic effects		0,179 mg/kg 179 µg/kg bw/day	no potential for bioaccumulation
N,N-Dimethylacrylamide 2680-03-7	General population	inhalation	Long term exposure - systemic effects		0,051 mg/m ³	no potential for bioaccumulation
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	Workers	inhalation	Long term exposure - systemic effects		2,11 mg/m ³	
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	Workers	dermal	Long term exposure - systemic effects		0,599 mg/kg	
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	General population	inhalation	Long term exposure - systemic effects		0,372 mg/m ³	
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	General population	dermal	Long term exposure - systemic effects		0,214 mg/kg	
2,2-Dimethoxy-1,2-diphenylethan-1-one 24650-42-8	General population	oral	Long term exposure -		0,214 mg/kg	

			systemic effects			
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	Workers	inhalation	Long term exposure - systemic effects		0,822 mg/m3	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	Workers	dermal	Long term exposure - systemic effects		0,233 mg/kg	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	General population	inhalation	Long term exposure - systemic effects		0,145 mg/m3	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	General population	dermal	Long term exposure - systemic effects		0,0833 mg/kg	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8	General population	oral	Long term exposure - systemic effects		0,0833 mg/kg	
p-Toluenesulphonyl isocyanate 4083-64-1	Workers	inhalation	Long term exposure - systemic effects		3,24 mg/m3	
p-Toluenesulphonyl isocyanate 4083-64-1	Workers	dermal	Long term exposure - systemic effects		0,92 mg/kg	
p-Toluenesulphonyl isocyanate 4083-64-1	General population	inhalation	Long term exposure - systemic effects		0,8 mg/m3	
p-Toluenesulphonyl isocyanate 4083-64-1	General population	dermal	Long term exposure - systemic effects		0,46 mg/kg	
p-Toluenesulphonyl isocyanate 4083-64-1	General population	oral	Long term exposure - systemic effects		0,46 mg/kg	
Triphenyl phosphite 101-02-0	General population	dermal	Long term exposure - systemic effects		0,150 mg/kg	
Triphenyl phosphite 101-02-0	General population	inhalation	Long term exposure - systemic effects		0,53 mg/m3	
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Workers	Inhalation	Long term exposure - systemic effects		21 mg/m3	
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	Workers	dermal	Long term exposure - systemic effects		3 mg/kg	
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	General population	inhalation	Long term exposure - systemic effects		5,2 mg/m3	
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	General population	dermal	Long term exposure - systemic effects		1,5 mg/kg	
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	General population	oral	Long term exposure - systemic effects		1,5 mg/kg	

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
HDI oligomers, isocyanurate 28182-81-2 [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		
p-Toluenesulphonyl isocyanate 4083-64-1 [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:
Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

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:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

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

Advices to personal protection equipment:

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	Light blue
Odor	Typical
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Initial boiling point	Not available.
Flammability	The product is not flammable.
Explosive limits	Not applicable, The product is not flammable.
Flash point	97 °C (206.6 °F)
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	Product is non-soluble (in water)., Not applicable
Viscosity (kinematic)	Currently under determination
Solubility (qualitative)	Not available.
Partition coefficient: n-octanol/water	Not applicable
	Mixture
Vapour pressure	Not available.
Density	1,12 g/cm ³ no method / method unknown
(20 °C (68 °F))	
Relative vapour density:	Not available.
Particle characteristics	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

Water

Reacts with alcohols and amines.

Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.

Reacts with oxidants, acids and lyes

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

Hydrocarbons

nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

Hydrogen cyanide.

Isocyanate vapors

SECTION 11: Toxicological information**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, V=2750-4250 mPas/23 28182-81-2	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
Isobornyl acrylate 5888-33-5	LD50	4.350 mg/kg	rat	not specified
2-Propenamide, N,N-dimethyl- 2680-03-7	LD50	> 215 - 464 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
2-Propenamide, N,N-dimethyl- 2680-03-7	Acute toxicity estimate (ATE)	216 mg/kg		Expert judgement
Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8	LD50	1.470 mg/kg	rat	QSAR (Quantitative Structure Activity Relationship)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
4-isocyanatosulphonyltoluene 4083-64-1	LD50	2.330 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Triphenyl phosphite 101-02-0	LD50	1.590 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	LD50	> 2.000 mg/kg	rat	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.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Isobornyl acrylate 5888-33-5	LD50	> 3.000 mg/kg	rabbit	not specified
2-Propenamide, N,N-dimethyl- 2680-03-7	LD50	500 mg/kg	rat	not specified
Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8	LD50	> 5.000 mg/kg	rat	not specified
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
4-isocyanatosulphonyltoluene 4083-64-1	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Triphenyl phosphite 101-02-0	LD50	> 2.000 - < 5.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Triphenyl phosphite 101-02-0	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	LD50	> 2.000 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.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	Acute toxicity estimate (ATE)	3,9 mg/l	dust/mist	4 h		Expert judgement
Triphenyl phosphite 101-02-0	LC50	> 6,7 mg/l	dust/mist	1 h	rat	equivalent or similar to 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.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	slightly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Isobornyl acrylate 5888-33-5	not irritating	24 h	rabbit	other guideline:
2-Propenamide, N,N-dimethyl- 2680-03-7	not irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	not irritating	24 h	rabbit	not specified

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, V=2750-4250 mPas/23 28182-81-2	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Isobornyl acrylate 5888-33-5	not irritating		rabbit	other guideline:
2-Propenamide, N,N-dimethyl- 2680-03-7	irritating or corrosive		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-Propenamide, N,N-dimethyl- 2680-03-7	corrosive		Bovine, cornea, in vitro test	OECD Guideline 437 (BCOP)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	not irritating		rabbit	not specified

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, V=2750-4250 mPas/23 28182-81-2	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isobornyl acrylate 5888-33-5	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-Propenamide, N,N-dimethyl- 2680-03-7	Sub-Category 1B (sensitising)			Weight of evidence
2-Propenamide, N,N-dimethyl- 2680-03-7	positive	Patch-Test	human	Patch Test
2-Propenamide, N,N-dimethyl- 2680-03-7	positive	Direct peptide reactivity assay (DPRA)	cysteine and lysine, in chemico test	OECD Guideline 442C (Direct Peptide Reactivity Assay (DPRA))
2-Propenamide, N,N-dimethyl- 2680-03-7	positive	Activation of keratinocytes	human keratinocytes, in vitro test	OECD Guideline 442D (ARE-Nrf2 Luciferase Test Method)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Triphenyl phosphite 101-02-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Triphenyl phosphite 101-02-0	sensitising	Guinea pig maximisation test	guinea pig	EPA OPPTS 870.2600 (Skin Sensitisation)

Germ cell mutagenicity:

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

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Isobornyl acrylate 5888-33-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isobornyl acrylate 5888-33-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isobornyl acrylate 5888-33-5	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
2-Propenamide, N,N-dimethyl- 2680-03-7	negative		with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-Propenamide, N,N-dimethyl- 2680-03-7	negative		with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
4-isocyanatosulphonyltoluene 4083-64-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
4-isocyanatosulphonyltoluene 4083-64-1	negative	in vitro mammalian chromosome aberration test	with and without		not specified

Carcinogenicity

No data available.

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
Isobornyl acrylate 5888-33-5	NOAEL P 100 mg/kg NOAEL F1 100 mg/kg	screening	oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Propenamide, N,N- dimethyl- 2680-03-7	NOAEL P 5 mg/kg NOAEL F1 30 mg/kg		oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
4- isocyanatosulphonyltolue ne 4083-64-1	NOAEL F1 300 mg/kg	one- generation study	oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure:

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

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
Hexane, 1,6-diisocyanato- , homopolymer, V=2750- 4250 mPas/23 28182-81-2	May cause respiratory irritation.			

STOT-repeated exposure:

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

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Hexane, 1,6-diisocyanato- , homopolymer, V=2750- 4250 mPas/23 28182-81-2	NOAEL 0,003 mg/l	inhalation: aerosol	13 weeks 6 h/d, 5 d/week	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Isobornyl acrylate 5888-33-5	NOAEL 100 mg/kg	oral: gavage	once daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Propenamide, N,N- dimethyl- 2680-03-7	NOAEL 10 mg/kg	dermal	13 weeks 6 hours/day, 7 days/week	rat	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Ethanone, 2,2-dimethoxy- 1,2-diphenyl- 24650-42-8	NOAEL 42,8 mg/kg	oral: unspecified	45 d	rat	QSAR (Quantitative Structure Activity Relationship)
Diphenyl-2,4,6- trimethylbenzoyl phosphine oxide 75980-60-8	NOAEL 100 mg/kg	oral: gavage	3 m 5 d/w	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Triphenyl phosphite 101-02-0	NOAEL 15 mg/kg	oral: gavage	16 weeks daily	rat	equivalent or similar to OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reprod./Develop. Tox. Screening Test)

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 / surface water / ground 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, 2-hydroxyethyl acrylate-blocked 264888-31-5	LC50	> 100 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	LC50	> 100 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isobornyl acrylate 5888-33-5	LC50	0,704 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Propenamide, N,N- dimethyl- 2680-03-7	LC50	> 120 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethanone, 2,2-dimethoxy-1,2- diphenyl- 24650-42-8	LC50	29,67 mg/l	96 h	QSAR	QSAR (Quantitative Structure Activity Relationship)
Ethanone, 2,2-dimethoxy-1,2- diphenyl- 24650-42-8	NOEC	3,215 mg/l	30 d	QSAR	QSAR (Quantitative Structure Activity Relationship)
Diphenyl-2,4,6- trimethylbenzoyl phosphine oxide 75980-60-8	LC50	1,4 mg/l	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
4-isocyanatosulphonyltoluene 4083-64-1	LC50	> 45 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Triphenyl phosphite 101-02-0	LC50	> 16 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide 162881-26-7	LC50	'Toxicity > Water solubility'	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)

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, 2-hydroxyethyl acrylate-blocked 264888-31-5	EC50	58 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isobornyl acrylate 5888-33-5	EC50	1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Propenamide, N,N- dimethyl- 2680-03-7	EC50	> 120 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8	EC50	18,387 mg/l	48 h	QSAR	QSAR (Quantitative Structure Activity Relationship)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	EC50	3,53 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4-isocyanatosulphonyltoluene 4083-64-1	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Triphenyl phosphite 101-02-0	EC50	> 1 - 5 mg/l	48 h	Daphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

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
Isobornyl acrylate 5888-33-5	NOEC	0,092 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8	NOEC	2,288 mg/l	21 d	other:	QSAR (Quantitative Structure Activity Relationship)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	NOEC	Toxicity > Water solubility	21 day	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

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, 2-hydroxyethyl acrylate-blocked 264888-31-5	EC50	> 100 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	EC50	> 1.000 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isobornyl acrylate 5888-33-5	NOEC	0,405 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isobornyl acrylate 5888-33-5	EC50	1,98 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Propenamide, N,N-dimethyl- 2680-03-7	EC50	> 400 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Propenamide, N,N-dimethyl- 2680-03-7	NOEC	50 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8	EC50	19,66 mg/l	96 h	other:	QSAR (Quantitative Structure Activity Relationship)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	EC50	> 2,01 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	EC10	1,56 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
4-isocyanatosulphonyltoluene 4083-64-1	EC50	30 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
4-isocyanatosulphonyltoluene 4083-64-1	EC10	23 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	EC50	Toxicity > Water solubility	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	NOEC	Toxicity > Water solubility	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth 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, V=2750-4250 mPas/23 28182-81-2	EC50	> 1.000 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2-Propenamide, N,N-dimethyl- 2680-03-7	EC50	> 1.000 mg/l	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	EC50	> 1.000 mg/l	30 min		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
4-isocyanatosulphonyltoluene 4083-64-1	EC50	2.511 mg/l			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Triphenyl phosphite 101-02-0	EC50	> 100 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	EC50	> 100 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
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12.2. Persistence and degradability

The product is not biodegradable.

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, 2-hydroxyethyl acrylate-blocked 264888-31-5	not readily biodegradable.	aerobic	> 0 - < 60 %	28 d	OECD 301 A - F
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Isobornyl acrylate 5888-33-5	inherently biodegradable	aerobic	73,9 %	60 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Isobornyl acrylate 5888-33-5	not readily biodegradable.	aerobic	57 %	28 d	OECD Guideline 310 (Ready Biodegradability CO2 in Sealed Vessels (Headspace Test))
2-Propenamide, N,N-dimethyl- 2680-03-7	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8	not readily biodegradable.	aerobic	3 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	not readily biodegradable.	aerobic	0 - 10 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
4-isocyanatosulphonyltoluene 4083-64-1	readily biodegradable	aerobic	83 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Triphenyl phosphite 101-02-0	readily biodegradable	aerobic	84 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	not readily biodegradable.	aerobic	1 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	3,2			calculation	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Isobornyl acrylate 5888-33-5	37	56 h	24 °C	Danio rerio	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	< 5				OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)

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
Isobornyl acrylate 5888-33-5	4,52		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2-Propenamide, N,N-dimethyl- 2680-03-7	< 0,3	23 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8	2,95	25 °C	QSAR (Quantitative Structure Activity Relationship)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	3,1	23 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
4-isocyanatosulphonyltoluene 4083-64-1	0,6	30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Triphenyl phosphite 101-02-0	6,62	25 °C	QSAR (Quantitative Structure Activity Relationship)
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	5,8		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

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
Hexane, 1,6-diisocyanato-, homopolymer, V=2750-4250 mPas/23 28182-81-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Isobornyl acrylate 5888-33-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-Propenamide, N,N-dimethyl- 2680-03-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide 75980-60-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
4-isocyanatosulphonyltoluene 4083-64-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Triphenyl phosphite 101-02-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7	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:

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

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances

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.

SECTION 14: Transport information

14.1. UN number or ID number

ADR	3082
RID	3082
IMDG	3082
IATA	3082

14.2. UN proper shipping name

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)
IATA	Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate)

14.3. Transport hazard class(es)

ADR	9
RID	9
IMDG	9
IATA	9

14.4. Packing group

ADR	III
RID	III
IMDG	III
IATA	III

14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDG	Marine Pollutant
IATA	Environmentally Hazardous

14.6. Special precautions for user

ADR	not applicable
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	Tunnelcode:
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG), NZ 4.3(10) may be applied, which can result in a deviation from the transport classification for packed goods.

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 2024/590):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EC)	< 3 %

15.2. Chemical safety assessment

A chemical safety assessment has not 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:

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H360Fd May damage fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

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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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.