According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



### **PURAFLEX-40**

Date of last issue: 14.07.2021 Version 13.0 Print Date 25.02.2022

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

1.1 Product identifier

Trade name : PURAFLEX-40

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

Product use : Sealant/adhesive

1.3 Details of the supplier of the safety data sheet

Company name of supplier Sika Limited

Watchmead Welwyn Garden City

Hertfordshire. AL7 1BQ

Telephone +44 (0)1707 394444 +44 (0)1707 329129 Telefax E-mail address of person EHS@uk.sika.com

responsible for the SDS

1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC) 24 Hour Emergency Telephone Number +44 870 190 6777

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word Warning

May cause an allergic skin reaction. Hazard statements H317

If medical advice is needed, have product P101 Precautionary statements container or label at hand.

Keep out of reach of children.

P102

Prevention:

P261 Avoid breathing mist or vapours.

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P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

Disposal:

P501 Dispose of contents/container in accordance

with local regulation.

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

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane

Pentamethyl piperidylsebacate

Hardener LI (Isophoronedialdimine)

4,4'-methylenediphenyl diisocyanate

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

m-tolylidene diisocyanate

#### **Additional Labelling**

EUH204 Contains isocyanates. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

"As from 24 August 2023 adequate training is required before industrial or professional use."

#### 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.

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## **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No. Registration number		(% w/w)
Urea,N,N"-(methylenedi-4,1- phenylene)bis[N'-butyl-	77703-56-1 416-600-4 01-0000016345-72- XXXX	Aquatic Chronic 4; H413	>= 2,5 - < 5
titanium dioxide; [in powder form containing 1 % or more of parti- cles with aerodynamic diameter ≤ 10 µm]	13463-67-7 236-675-5 01-2119489379-17- XXXX	Carc. 2; H351	>= 2,5 - < 5
Reaction product of Hexameth- ylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane	192526-20-8 924-669-1 01-2120768758-32- XXXX	Skin Sens. 1A; H317 Aquatic Chronic 4; H413	>= 0,1 - < 0,25
Pentamethyl piperidylsebacate Contains: bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate	1065336-91-5 915-687-0 01-2119491304-40- XXXX	Skin Sens. 1A; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
Hardener LI (Isophoronedial-dimine)	932742-30-8 700-071-4 UK-01-4889597125- 6-0001	Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,025 - < 0,25

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4,4'-methylenediphenyl diisocyanate	101-68-8 202-966-0 01-2119457014-47- XXXX	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H337 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373	< 0,1
		Acute toxicity esti- mate	
		Acute inhalation toxicity (dust/mist): 1,5 mg/l	

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3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9 223-861-6 01-2119490408-31- XXXX	Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 2; H411 ——————————————————————————————————	>= 0,025 - < 0,25
m-tolylidene diisocyanate	26471-62-5 247-722-4 01-2119454791-34- XXXX	Carc. 2; H351 Acute Tox. 1; H330 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Chronic 3; H412  specific concentration limit Resp. Sens. 1; H334 >= 0,1 % Resp. Sens. 1; H334 >= 0,1 %	>= 0,025 - < 0,1

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

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Consult a physician after significant exposure.

In case of skin contact Take off contaminated clothing and shoes immediately.

> Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting without medical advice.

Rinse mouth with water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

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

**Symptoms** Allergic reactions

See Section 11 for more detailed information on health effects

and symptoms.

Risks : sensitising effects

May cause an allergic skin reaction.

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

Treatment : Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon diox-

ide/sand/foam/alcohol resistant foam/chemical powder for

extinction.

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

Hazardous combustion prod- : No hazardous combustion products are known

### 5.3 Advice for firefighters

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

for firefighters

ucts

Further information : Standard procedure for chemical fires.

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#### **SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.

Deny access to unprotected persons.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of 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.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Follow standard hygiene measures when handling chemical

products

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. 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

Keep container tightly closed in a dry and well-ventilated

place. Store in accordance with local regulations.

Further information on stor-

age stability

: No decomposition if stored and applied as directed.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Basis \*

GB EH40

## **PURAFLEX-40**

### 7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any

CAS-No.

13463-67-7

Value type (Form

of exposure)
TWA (inhalable

Control parame-

ters \*

10 mg/m3

use.

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

### 8.1 Control parameters

Components

### **Occupational Exposure Limits**

titanium dioxide; [in powder form contain-

ing 1 % or more of particles with aerody-		dust)		
namic diameter ≤ 10 μm]		TIMA (December	4 0	OD 51140
		TWA (Respirable dust)	4 mg/m3	GB EH40
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0,02 mg/m3 (NCO)	GB EH40
	Further inform	ation: Capable of ca	ausing occupation	al asthma.
		STEL	0,07 mg/m3 (NCO)	GB EH40
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	4098-71-9	TWA	0,02 mg/m3 (NCO)	GB EH40
	asthma (also can induce a simmunological become hypersometimes evitoms. These sasthma. Not a come hypersomethat can cause substances with pre-existic include the disclassified as a mation can be assessments asthma., Whe stances that can cause substances of company of the comp	ration: Substances to known as asthmage state of specific airwal irritant or other meresponsive, further en in tiny quantities symptoms can range all workers who are desponsive and it is in a likely to become hyperocupational asthmagens or resping airway hyperocupational asthmagens or resping found in the HSE profit he evidence for a rever it is reasonable an cause occupation of the evidence for a rever it is reasonable and cause occupation of the evidence for a rever it is reasonable and cause occupation of the evidence for a rever it is reasonable and cause occupation of the evidence for a rever it is reasonable and cause occupation of the evidence for a rever it is reasonable and cause occupation of the evidence occupation of the evidence occupation of the evidence of the price of the evidence occupation of the evidence of the price of the evidence occupation	ens and respiratory (ay hyper-responsion and may cause responsion as ensemble to a sension as should be distinguished by practicable, exponsiveness, but a symptoms of astinguished by practicable, exponsion as the latter substant and statement and as the should be distinguished by practicable, exponsion as the latter substant and statement as the latter substant and statement as the latter substant and latter substant as the latter substant as	y sensitisers) siveness via an he airways have substance, iratory symp- a runny nose to sitiser will be- tify in advance Substances inguished from hma in people which do not ces are not Further infor- agen? Critical in occupational bosure to sub- d be prevented bly adequate hing hyper- tional asthma, w as is rea- herm peak con- n risk manage- propriate for all

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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m-tolylidene diisocyanate	consultation w degree of risk pational asthm assigned only asthma in the obered that othe pational asthm (www.hse.gov.)  26471-62-5  Further information asthma (also k can induce a s immunological become hyper-	cupational asthma a ith an occupational and level of surveillia., The 'Sen' notation to those substances categories shown ir er substances not ir a. HSE's asthma wuk/asthma) provided STEL  TWA  ation: Substances the anown as asthmage tate of specific airwirritant or other metersponsive, further	health professions ance., Capable of on in the list of WI is which may caus a Table 1. It should these tables may be pages further information (NCO)  0,02 mg/m3 (NCO)  0,02 mg/m3 (NCO)  hat can cause occurs and respiratory ay hyper-responsion chanism. Once the exposure to the second or exposure to the s	al over the causing occu- ELs has been e occupational d be remem- / cause occu- on.  GB EH40  GB EH40  cupational / sensitisers) iveness via an e airways have substance,
	sometimes ever toms. These sy asthma. Not all come hyper-re those who are that can cause substances who with pre-existing include the disclassified as as mation can be assessments of asthma., When stances that can be to the cast of th	en in tiny quantities, ymptoms can range I workers who are esponsive and it is in likely to become hy coccupational asthmatich may trigger the agairway hyper-resease themselves. To sthmagens or respin found in the HSE professional in the evidence for a rever it is reasonable an cause occupation to possible, the prince I workers with the prince the statement of the evidence that the prince is the prince in the statement in the prince I workers who are established to be a constant who workers who are established to be a constant who workers who are established to be a constant who workers who are established to be a constant who workers who are established to be a constant who workers who are established to be a constant who workers who worke	may cause respire in severity from a exposed to a sense responsive. In a should be distinguished by the latter substantial ratory sensitisers. In a should be distinguished by the latter substantial ratory sensitisers. In a sthmatagents implicated by practicable, expensional asthma should	ratory symp- a runny nose to itiser will be- ify in advance Substances nguished from ma in people which do not ces are not Further infor- agen? Critical in occupational osure to sub- d be prevented.
	standards of coresponsive. For COSHH requires sonably practic centrations show ment is being of employees expensive ause occonsultation with degree of risk pational asthmatic assigned only asthmation in the coresponsive consultation.	ontrol to prevent wo or substances that c es that exposure be cable. Activities giving ould receive particular considered. Health a cosed or liable to be cupational asthma a with an occupational and level of surveillar and revel of surveillar to those substances categories shown in the resubstances not in	orkers from become an cause occupate reduced to as loong rise to short-te lar attention when surveillance is appeared to a sultand there should be health professionance., Capable of on in the list of Wise which may caus a Table 1. It should	ning hyper- tional asthma, w as is rea- rm peak con- risk manage- propriate for all betance which be appropriate al over the causing occu- ELs has been e occupational d be remem-
	pational asthm	a. HSE's asthma w .uk/asthma) provide STEL	eb pages	

\*The above mentioned values are in accordance with the legislation in effect at the date of the re-

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## **PURAFLEX-40**

lease of this safety data sheet.

#### Biological occupational exposure limits

Substance name	CAS-No.	Control parame- ters	Sampling time	Basis
4,4'-methylenediphenyl diisocyanate	101-68-8	isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	At the end of the period of exposure	GB EH40 BAT
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	4098-71-9	isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	At the end of the period of exposure	GB EH40 BAT
m-tolylidene diisocyanate	26471-62-5	isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (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
Reaction product of Hexamethylene diisocy- anate, oligomers with Mercaptopropyltri- methoxysilane	Workers	Inhalation	Long-term systemic effects	1,7 mg/m3
	Workers	Dermal	Long-term systemic effects	4,7 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0,3 mg/m3
	Consumers	Dermal	Long-term systemic effects	1,7 mg/kg

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

Substance name	Environmental Compartment	Value
Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane	Fresh water	0,1 mg/l
	Intermittent use/release	1 mg/l
	Marine water	0,01 mg/l
	Intermittent use/release	1 mg/l
	Fresh water sediment	23,28 mg/kg
	Marine sediment	2,33 mg/kg
	Sewage treatment plant	100 mg/l
	Soil	4,58 mg/kg

### 8.2 Exposure controls

#### **Engineering measures**

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

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#### Personal protective equipment

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

Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an ap-

proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu-

facturer specifications.

Suitable for short time use or protection against splashes:

Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed.

Suitable for permanent exposure:

Viton gloves (0.4 mm), breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345,

long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing

and stirring work.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work-

ing limits of the selected respirator.

organic vapor filter (Type A)

A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

### **Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state : liquid
Appearance : paste
Colour : various
Odour : odourless

Boiling point/boiling range : No data available

Flash point : > 150 °C

Method: closed cup

Auto-ignition temperature : No data available

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



### **PURAFLEX-40**

pH : Not applicable

substance/mixture is non-soluble (in water)

**Viscosity** 

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Solubility(ies)

Water solubility : insoluble

Vapour pressure : 0,01 hPa

Density : ca. 1,36 g/cm3 (20 °C)

#### 9.2 Other information

No data available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

The product is chemically stable.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : Avoid moisture.

10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

### **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.

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### **Components:**

Urea,N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl-:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 401

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

Method: OECD Test Guideline 402

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethox-

ysilane:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 423

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

Method: OECD Test Guideline 402

Pentamethyl piperidylsebacate:

Acute oral toxicity : LD50 Oral (Rat): 3.230 mg/kg

Hardener LI (Isophoronedialdimine):

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

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

4,4'-methylenediphenyl diisocyanate:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: 1,5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgement

Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:

Acute oral toxicity : LD50 Oral (Rat): 4.814 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,031 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 7.000 mg/kg

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### m-tolylidene diisocyanate:

Acute inhalation toxicity : LC50 (Rat): 0,107 mg/l

Exposure time: 4 h
Test atmosphere: vapour

#### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

### **Respiratory sensitisation**

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### 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 consid-

ered 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.

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## **SECTION 12: Ecological information**

### 12.1 Toxicity

#### **Components:**

Urea, N, N"-(methylenedi-4,1-phenylene)bis[N'-butyl-:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 250 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae/aguatic

plants

: EC50 (Raphidocelis subcapitata (freshwater green alga)): >

100 mg/l

Exposure time: 72 h

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethox-

ysilane:

Toxicity to fish LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Pentamethyl piperidylsebacate:

Toxicity to fish LC50 (Fish): 0,97 mg/l

Exposure time: 96 h

M-Factor (Acute aquatic tox- : 1

icity)

M-Factor (Chronic aquatic

toxicity)

Hardener LI (Isophoronedialdimine):

Toxicity to fish : LC50 (Fish): 87,2 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): 180,4 mg/l

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plants Exposure time: 72 h

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 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 consid-

ered 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 infor-

mation

: There is no data available for this product.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimized

wherever possible.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

way.

Dispose of surplus and non-recyclable products via a licensed

waste disposal contractor.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Avoid dispersal of spilled material and runoff and contact with

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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soil, waterways, drains and sewers.

European Waste Catalogue : 08 04 09\* waste adhesives and sealants containing organic

solvents or other dangerous substances

Contaminated packaging : 15 01 10\* packaging containing residues of or contaminated

by dangerous substances

## **SECTION 14: Transport information**

### 14.1 UN number

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant EU provisions transposed through retained EU law

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

4,4'-methylenediphenyl diisocyanate (Number on list 74, 56) 3-isocyanatomethyl-3,5,5trimethylcyclohexyl isocyanate (Number on list 74)

m-tolylidene diisocyanate (Number

on list 74)

: Not applicable

(=> 0.1 %).

: Not applicable

Not applicable

Not applicable

Not applicable

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich

: None of the components are listed

(Number on list 52)

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

**REACH Information:** 

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

All substances contained in our Products are

- registered by our upstream suppliers, and/or

- registered by us, and/or

- excluded from the regulation, and/or - exempted from the registration.

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

Not applicable

Law on the incentive tax for volatile organic compounds Volatile organic compounds

> (VOCV) no VOC duties

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture:

: Environmental Protection Act 1990 & Subsidiary Regulations Health and Safety at Work Act 1974 & Subsidiary Regulations Control of Substances Hazardous to Health Regulations

(COSHH)

May be subject to the Control of Major Accident Hazards

Regulations (COMAH), and amendments.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

### **SECTION 16: Other information**

### **Full text of H-Statements**

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	<ul> <li>May cause allergy or asthma symptoms or breathing difficuties if inhaled.</li> </ul>	-
H335	: May cause respiratory irritation.	
H351	: Suspected of causing cancer.	
H351	: Suspected of causing cancer if inhaled.	
H361f	: Suspected of damaging fertility.	
H373	<ul> <li>May cause damage to organs through prolonged or repeate exposure if inhaled.</li> </ul>	ed.
H400	: Very toxic to aquatic life.	
H410	<ul> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>	
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.	

### Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Acute Short-term (acute) aquatic hazard Aquatic Chronic Long-term (chronic) aquatic hazard

Carc. Carcinogenicity Eye Irrit. Eye irritation Reproductive toxicity Repr. Respiratory sensitisation Resp. Sens.

Skin irritation Skin Irrit.

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Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure GB EH40 : UK. EH40 WEL - Workplace Exposure Limits GB EH40 BAT : UK. Biological monitoring guidance values

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADR : European Agreement concerning the International Carriage of

Dangerous Goods by Road

CAS : Chemical Abstracts Service
DNEL : Derived no-effect level

EC50 : Half maximal effective concentration
GHS : Globally Harmonized System

IATA : International Air Transport Association

IMDG : International Maritime Code for Dangerous Goods

LD50 : Median lethal dosis (the amount of a material, given all at

once, which causes the death of 50% (one half) of a group of

test animals)

LC50 : Median lethal concentration (concentrations of the chemical in

air that kills 50% of the test animals during the observation

period)

MARPOL : International Convention for the Prevention of Pollution from

Ships, 1973 as modified by the Protocol of 1978

OEL : Occupational Exposure Limit

PBT : Persistent, bioaccumulative and toxic PNEC : Predicted no effect concentration

REACH : Regulation (EC) No 1907/2006 of the European Parliament

and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency

SVHC : Substances of Very High Concern

vPvB : Very persistent and very bioaccumulative

#### **Further information**

Classification of the mixture: Classification procedure:

Skin Sens. 1 H317 Calculation method

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version!

GB / EN

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