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



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

1.1 Product identifier

Trade name : Sikagard® M 790 (Formerly MSeal M 790) Part B

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

Product use : Special coating

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
Telefax : +44 (0)1707 329129
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)

Acute toxicity, Category 4 H332: Harmful if inhaled.
Skin irritation, Category 2 H315: Causes skin irritation.
Eye irritation, Category 2 H319: Causes serious eye irritation.

Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction. Carcinogenicity, Category 2 H351: Suspected of causing cancer.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H351: Suspected of causing cancer.
H355: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure, Category 2 H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

Long-term (chronic) aquatic hazard, Cat-H411: Toxic to aquatic life with long lasting effects.

egory 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms







Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breath-

ing difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged

or repeated exposure if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P260 Do not breathe mist or vapours. P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor.

P391 Collect spillage.

Hazardous components which must be listed on the label:

Diphenylmethanediisocyanate, isomeres and homologues Castor oil, polymer with polymethylenepolyphenylene isocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate

4,4'-methylenediphenyl diisocyanate

2,2'-methylenediphenyl diisocyanate

Additional Labelling

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

2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

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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. EC-No.	Classification	Concentration (% w/w)
	Index-No.		(70 W/W)
Diphenylmethanediisocyanate, isomeres and homologues	Registration number 9016-87-9 Not Assigned	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 ———————————————————————————————————	>= 25 - < 40
		specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	
		specific concentration limit Skin Irrit. 2; H315 >= 5 %	
		specific concentration limit STOT SE 3; H335 >= 5 %	
Castor oil, polymer with polymeth- ylenepolyphenylene isocyanate	67700-69-0 Not Assigned	Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373	>= 25 - < 40

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bis(isopropyl)naphthalene	38640-62-9 Not Assigned 01-2119565150-48- XXXX	Asp. Tox. 1; H304 Aquatic Chronic 1; H410	>= 10 - < 20
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1 227-534-9 615-005-00-9 01-2119480143-45- XXXX	Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT RE 2; H373 specific concentration limit Eye Irrit. 2; H319 >= 5 % specific concentration limit STOT SE 3; H335 >= 5 % specific concentration limit Skin Irrit. 2; H315 >= 5 % specific concentration limit Skin Irrit. 2; H315 >= 5 %	>= 5 - < 10

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4,4'-methylenediphenyl diisocya- nate	101-68-8 202-966-0 615-005-00-9 01-2119457014-47- XXXX	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373	>= 2,5 - < 5
		specific concentration limit Eye Irrit. 2; H319 >= 5 %	
		specific concentration limit STOT SE 3; H335 >= 5 %	
		specific concentration limit Skin Irrit. 2; H315 >= 5 %	
		specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	
		Acute toxicity esti- mate	
		Acute inhalation toxicity (dust/mist): 1,5	

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2,2'-methylenediphenyl diisocya- nate	2536-05-2 219-799-4 615-005-00-9 01-2119927323-43- XXXX	Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H317 Carc. 2; H351 STOT RE 2; H373 ——————————————————————————————————	< 0,1
		>= 5 % specific concentration limit Resp. Sens. 1; H334 >= 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.

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.

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In case of eye contact : Immediately flush eye(s) with plenty of water.

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 : Asthmatic appearance

Cough

Respiratory disorder Allergic reactions Excessive lachrymation

Erythema Headache Dermatitis

See Section 11 for more detailed information on health effects

and symptoms.

Risks : irritant effects

sensitising effects

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause respiratory irritation. Suspected of causing cancer.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

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.

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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

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

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

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

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 formation of aerosol.

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 asth-

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ma, 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.

Provide sufficient air exchange and/or exhaust in work rooms. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accord-

ance with local regulations.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Cleaning with aprotic polar solvents must be avoided.

Consult most current local Product Data Sheet prior to any

use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	TWA	0,02 mg/m3 (NCO)	GB EH40
	Further informa	ation: Capable of ca	ausing occupation	al asthma.
		STEL	0,07 mg/m3 (NCO)	GB EH40
		TWA	0,01 mg/m3 (NCO)	98/24/EC I
	Further information: Skin, Dermal and respiratory sensitisa Binding		ensitisation,	
		STEL	0,02 mg/m3 (NCO)	98/24/EC I
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	TWA	0,02 mg/m3 (NCO)	GB EH40
	Further information: Substances that can cause occupational		upational	

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asthma (also known as asthmagens and respiratory sensitisers)

	can induce a immunologic become hype	state of specific aironal irritant or other more responsive, further ven in tiny quantities	way hyper-respore the chanism. Once the exposure to the	nsiveness via an the airways have e substance,
	sometimes e toms. These asthma. Not come hyperthose who are that can caus substances with pre-exis include the disclassified as mation can be assessments asthma., Whistances that Where this is standards of responsive. I COSHH requisionably practicentrations is ment is being employees e	ven in tiny quantities symptoms can rang all workers who are responsive and it is responsive and it is the likely to become he se occupational asthematics as the may trigger the ting airway hyper-reisease themselves. asthmagens or responsive found in the HSE of the evidence for erever it is reasonable and possible, the procontrol to prevent we for substances that aires that exposure but ticable. Activities given hould receive participations as the compational asthma with an occupational asthma with an	s, may cause respection severity from exposed to a serimpossible to identify per-responsive. It is a symptoms of as sponsiveness, but the latter substantification of the latter should and there should and there should and the list of the latter of the latt	coiratory symponia a runny nose to nesitiser will bentify in advance Substances stinguished from other in people at which do not noces are not so. Further informagen? Critical doin occupational aposure to subsuld be prevented. The proposure to subsult the proposure to subsult the proposure to subsult the proposure to all ubstance which be appropriate for all ubstance which be appropriate nall over the of causing occupational all the remem-
	,	stel	0,07 mg/m3 (NCO)	GB EH40
		TWA	0,01 mg/m3 (NCO)	98/24/EC I
	Further information Binding	mation: Skin, Derma	l and respiratory	sensitisation,
		STEL	0,02 mg/m3 (NCO)	98/24/EC I
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0,02 mg/m3 (NCO)	GB EH40
	Further infor	mation: Capable of c		nal asthma.
		STEL	0,07 mg/m3 (NCO)	GB EH40
2,2'-methylenediphenyl diisocyanate	2536-05-2	TWA	0,02 mg/m3 (NCO)	GB EH40
		mation: Capable of c	ausing occupation	
ntry GB 100000054107				11 / 24

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	this is not poss ards of control responsive. Fo COSHH require sonably practic centrations sho ment is being of employees exp may cause occ consultation with degree of risk a list of WELs hat may cause occ 1. It should be tables may cause	occupational asthrable, the primary aid to prevent workers or substances that coes that exposure be cable. Activities giving ould receive particular considered. Health a coesed or liable to be cupational asthma at the an occupational asthma in the coese of surveillars been assigned or cupational asthma in the cupational asthma in the coese occupational as uk/asthma) provides	m is to apply adeq from becoming hy an cause occupate e reduced to as low ng rise to short-tellar attention when surveillance is apple e exposed to a sub- and there should be health professional ance., The 'Sen' nally to those substant in the categories significant the substances of thema. HSE's asth	uate stand- //per- ional asthma, // as is rea- rm peak con- risk manage- propriate for all estance which e appropriate al over the otation in the ances which hown in Table ot in these ma web pages
		STEL	0,07 mg/m3 (NCO)	GB EH40
		TWA	0,01 mg/m3 (NCO)	98/24/EC I
	Further information: Skin, Dermal and respiratory sensitisation, Binding			
***************************************		STEL	0,02 mg/m3 (NCO)	98/24/EC I

^{*}The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

Biological occupational exposure limits

Substance name	CAS-No.	Control parame- ters	Sampling time	Basis
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	At the end of the period of exposure	GB EH40 BAT
bis(isopropyl)naphthalene	38640-62-9	1-hydroxypyrene: 4 µmol/mol creati- nine (Urine)	After shift	GB EH40 BAT
o-(p-isocyanatobenzyl)phenyl isocy- anate	5873-54-1	isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	At the end of the period of expo- sure	GB EH40 BAT
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
2,2'-methylenediphenyl diisocyanate	2536-05-2	isocyanate-	At the end of the	GB EH40 BAT

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	derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	period of expo- sure	
--	--	-------------------------	--

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Hand protection

Safety glasses with side-shields conforming to EN166

: Chemical-resistant, impervious gloves complying with an approved 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 working limits of the selected respirator.

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as-

sessment indicates this is necessary.

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. Ensure adequate ventilation, especially in confined areas.

Environmental exposure controls

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

If the product contaminates rivers and lakes or drains inform

respective authorities.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance liquid Colour brown Odour aliphatic

Melting point/ range / Freez-

ing point

No data available

Boiling point/boiling range : No data available

Flammability (solid, gas) No data available

Upper/lower flammability or explosive limits

Upper explosion limit / Up- : No data available

per flammability limit

Lower explosion limit /

Lower flammability limit

: No data available

Flash point : > 101 °C

Method: closed cup

Auto-ignition temperature No data available

Decomposition temperature No data available

Not applicable pΗ

substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : ca. 2.500 mPa.s (20 °C)

Viscosity, kinematic $> 20,5 \text{ mm2/s} (40 \,^{\circ}\text{C})$

Solubility(ies)

Water solubility insoluble

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : 0,01 hPa

Density ca. 1,15 g/cm3 (20 °C)

Relative vapour density No data available

No data available Particle characteristics

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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 : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

:

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if inhaled.

Components:

Diphenylmethanediisocyanate, isomeres and homologues:

Acute oral toxicity : LD50 Oral (Rat): > 10.000 mg/kg

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

Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgement

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity : LD50 Dermal (Rabbit): > 9.400 mg/kg

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Castor oil, polymer with polymethylenepolyphenylene isocyanate:

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

Method: OECD Test Guideline 423

Remarks: Based on data from similar materials

bis(isopropyl)naphthalene:

Acute oral toxicity : LD50 Oral (Rat): > 3.900 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,64 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 4.500 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

Skin corrosion/irritation

Causes skin irritation.

Components:

Castor oil, polymer with polymethylenepolyphenylene isocyanate:

Species : reconstructed human epidermis (RhE)

Exposure time : < 1 h

Method : OECD Test Guideline 439

Result : No skin irritation

Remarks : Based on data from similar materials

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Castor oil, polymer with polymethylenepolyphenylene isocyanate:

Species : Not tested on animals
Method : OECD Test Guideline 492

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Result : No eye irritation

Remarks : Based on data from similar materials

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

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

Components:

Castor oil, polymer with polymethylenepolyphenylene isocyanate:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Dermal Species : Mouse

Method : OECD Test Guideline 442B

Result : May cause sensitisation by skin contact.
Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Castor oil, polymer with polymethylenepolyphenylene isocyanate:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

Result: negative

Remarks: Based on data from similar materials

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

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Not classified due to lack of data.

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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Diphenylmethanediisocyanate, isomeres and homologues:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1.000 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 1.640

mg/l

Exposure time: 72 h

Castor oil, polymer with polymethylenepolyphenylene isocyanate:

Toxicity to fish : LL50 (Fish): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

: EC50 (algae): > 100 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

12.2 Persistence and degradability

Components:

Castor oil, polymer with polymethylenepolyphenylene isocyanate:

Biodegradability : Test Type: aerobic

Result: Not readily biodegradable.

Exposure time: 28 d

Kinetic:

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



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28 d: 1,5 %

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

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 components considered to

be either persistent, bioaccumulative and toxic (PBT), or very

persistent and very bioaccumulative (vPvB)..

Components:

bis(isopropyl)naphthalene:

Assessment : vPvB substance

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

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

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

wav.

Dispose of surplus and non-recyclable products via a licensed

waste disposal contractor.

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



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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

soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3082 IMDG : UN 3082 IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(bis(isopropyl)naphthalene)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(bis(isopropyl)naphthalene)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(bis(isopropyl)naphthalene)

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

Remarks : Transport in accordance with special provision 375

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F

Remarks : Transport in accordance with 2.10.2.7 of the IMDG-Code

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

964

964



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IATA (Cargo)

Packing instruction (cargo

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

Remarks : Transport in accordance with special regulation A 197

IATA (Passenger)

Packing instruction (passen-

ger aircraft)

ction (LQ) : Y964

Packing instruction (LQ) : Y96-Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

UK REACH List of restrictions (Annex 17)

: Conditions of restriction for the following entries should be considered: Number on list 56: Diphenylmethanediisocyanate, isomeres and

homologues, o-(p-

isocyanatobenzyl)phenyl isocyanate, 4,4'-methylenediphenyl diisocyanate

Number on list 74: Diphenylme-

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



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thanediisocyanate, isomeres and

homologues, o-(p-

isocyanatobenzyl)phenyl isocyanate, 4,4'-methylenediphenyl diisocyanate, 2,2'-methylenediphenyl diisocya-

nate

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit-

Not applicable

ain)

International Chemical Weapons Convention (CWC)

Schedules of Toxic Chemicals and Precursors

Not applicable

Regulation (EU) No 2024/590 on substances that de-

plete the ozone layer

Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

Not applicable

Control of Major Accident Hazards Regulations E2 **ENVIRONMENTAL HAZARDS**

2015 (COMAH)

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

(VOCV)

Volatile organic compounds (VOC) content: < 0% w/w

no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention

and control)

Volatile organic compounds (VOC) content: < 0% w/w

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.

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



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SECTION 16: Other information

Full text of H-Statements

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eve irritation.

H332 Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficul-H334

ties if inhaled.

May cause respiratory irritation. H335 Suspected of causing cancer. H351

May cause damage to organs through prolonged or repeated H373

exposure.

May cause damage to organs through prolonged or repeated H373

exposure if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Chronic Long-term (chronic) aquatic hazard

Asp. Tox. Aspiration hazard Carc. Carcinogenicity Eve Irrit. Eye irritation

Resp. Sens. Respiratory sensitisation

Skin Irrit. Skin irritation Skin Sens. Skin sensitisation

STOT RE Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure STOT SE

Europe. Chemical Agents Directive - Annex I: Binding occupa-98/24/EC I

tional exposure limit values

GB EH40 UK. EH40 WEL - Workplace Exposure Limits GB EH40 BAT UK. Biological monitoring guidance values

Limit values Short-term 98/24/EC I / STEL 98/24/EC I / TWA Limit values 8 hours

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

European Agreement concerning the International Carriage of **ADR**

Dangerous Goods by Road

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

Half maximal effective concentration EC50 GHS Globally Harmonized System

International Air Transport Association IATA

International Maritime Code for Dangerous Goods **IMDG** 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

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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:

Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 2	H411	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