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# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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

2		Done de	- 4 5 -1	41.61
1	1.1.	Produ	CT IO	entifier

Code: SE2011A
Product name SE2011A

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

Intended use Silicone rubber potting compound

1.3. Details of the supplier of the safety data sheet

Name ACC Silicones LTD

Full address Amber House Showground Road

District and Country TA6 6ABridgwater (Somerset)

England

Tel. +44(0)1278411400 Fax +44(0)1278411444

e-mail address of the competent person

responsible for the Safety Data Sheet info@acc-silicones.com

1.4. Emergency telephone number

For urgent inquiries refer to For all enquiries except Sweden and Hungary and Australia: +44(0)1278411400

Sweden: Ring 112 vid inträffade förgiftningstillbud och begär giftinformation -

dygnet runt.

Ring 010-456-6700 i mindre brådskande fall - dygnet runt. Allmänna och

förebyggande frågor om

akuta förgiftningar besvaras vardagar kl 9-17.

Hungary: Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ) 1097 Budapest, Nagyvárad tér 2, 06-80-201-199 (zöld szám, ingyenesen, éjjel-nappal

hívható) 06-1-4761120

Australia: DC Products Pty Ltd, Unit 117, 45 Gilby Road, Mount Waverley VIC 3149.

Tel +61 3 9558 8898, Emergeny contact number 0418529118

### **SECTION 2. Hazards identification**

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

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.

Hazard classification and indication: --

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

**EUH210** Safety data sheet available on request.

Precautionary statements: --



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### SECTION 2. Hazards identification .../>>

#### 2.3. Other hazards

vPvB substances contained:
DODECAMETHYL CYCLOHEXASILOXANE
OCTAMETHYLTETRACYCLOSILOXANE
DECAMETHYLCYCLOPENTASILOXANE

PBT substances contained:

**OCTAMETHYLTETRACYCLOSILOXANE** 

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

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

AMORPHOUS SILICATE HYDRATE

CAS 7631-86-9  $6 \le x < 7$  Substance with a community workplace exposure limit.

EC 231-545-4

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Reg. no. 01-2119379499-16-0134 DODECAMETHYL CYCLOHEXASILOXANE

CAS 540-97-6 0.1 ≤ x < 0.52 ubstance vPvB

EC 208-762-8

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Reg. no. 01-2119517435-42
OCTAMETHYLTETRACYCLOSILOXANE

CAS 556-67-2 0.1 ≤ x < 0.2 Flam. Liq. 3 H226, Repr. 2 H361f, Aquatic Chronic 2 H411

EC 209-136-7

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Reg. no. 01-2119529238-36 **DECAMETHYLCYCLOPENTASILOXANE** 

CAS 541-02-6 0.1 ≤ x < 0.52 ibstance vPvB

EC 208-764-9

INDEX

Reg. no. 01-2119511367-43

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### SECTION 4. First aid measures

### 4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

# **SECTION 5. Firefighting measures**

## 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.



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#### SECTION 5. Firefighting measures .../>>

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### **SECTION 6. Accidental release measures**

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

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

# 7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

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

### 8.1. Control parameters

Regulatory References:

DEU Deutschland GBR United Kingdom EU OEL EU TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte

EH40/2005 Workplace exposure limits

Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC;

Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.



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SECTION 8. Exposure controls/personal protection .../>>

				AMORPHOUS:	SILICATE HYD	DRATE			
hreshold Lin	nit Value								
Type	Count	ry TWA	/8h	STEL/1	5min				
		mg/n	ı3 ppm	mg/m3	ppm				
AGW	DEU	4				INHAL			
MAK	DEU	4				INHAL			
WEL	GBR	6				INHAL			
WEL	GBR	2.4				RESP			
OEL	EU	6				INHAL			
OEL	EU	2.4				RESP			
lealth - Derive	ed no-effec	t level - DN	EL / DMEL						
		Effects on c	onsumers			Effects on we	orkers		
Route of ex	posure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
		local	systemic	local	systemic	local	systemic	local	systemic
Inhalation			-			4 mg/m3	VND	4 mg/m3	VND

	DOE	ECAMETHYL	CYCLOHEXASI	LOXANE					
centration	- PNEC								
n water sedi	ment				2.826	mg/kg			
ine water se	diment				0.282	mg/kg			
errestrial co	mpartment				3.336	mg/kg			
ect level - D	NEL / DMEL								
Effects or	n consumers			Effects on w	orkers				
Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
local	systemic	local	systemic	local	systemic	local	systemic		
			1.7						
			mg/kg bw/d						
		0.3	2.7			1.22	11		
		mg/m3	mg/m3			mg/m3	mg/m3		
	n water sedi ine water se microorgani errestrial co ect level - D Effects of Acute	n water sediment ine water sediment microorganisms terrestrial compartment ect level - DNEL / DMEL Effects on consumers Acute Acute	n water sediment ine water sediment microorganisms terrestrial compartment ect level - DNEL / DMEL Effects on consumers Acute Acute Chronic local systemic 0.3	n water sediment ine water sediment microorganisms terrestrial compartment ect level - DNEL / DMEL  Effects on consumers Acute Acute Chronic Chronic local systemic local systemic 1.7 mg/kg bw/d 0.3 2.7	n water sediment ine water sediment microorganisms terrestrial compartment ect level - DNEL / DMEL  Effects on consumers Acute Acute Chronic Chronic Acute local systemic local systemic local  1.7  mg/kg bw/d  0.3 2.7	Acute   Acut	Second Comparison   Seco		

			OC.	TAMETHYLTET	RACYCLOSI	LOXANE			
<b>Threshold Limit Va</b>	lue								
Туре	Country	TWA/8h		STEL/15	min				
		mg/m3	ppm	mg/m3	ppm				
OEL	EU		10			RESP			
Predicted no-effect	concentra	tion - PNEC	:						
Normal value in r	narine wate	r					0.044	mg/l	
Normal value for	fresh water	sediment					0.128	mg/kg	
Normal value of S	STP microoi	rganisms					100	mg/l	
Normal value for	the terrestri	al compartn	nent				0.16	mg/kg	
Health - Derived no	-effect leve	el - DNEL / I	DMEL						
	Effec	cts on consu	mers			Effects on v	vorkers		
Route of exposur	e Acut	e Acu	ıte	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	sys	temic	local	systemic	local	systemic	local	systemic
Inhalation	61	305	i	61	305				
	mg/n	n3 mg/	′m3	mg/m3	mg/m3				

		DE	CAMETHYLCY	CLOPENTASIL	OXANE			
Predicted no-effect con	centration	- PNEC						
Normal value in fresh	water					0.0012	mg/l	
Normal value in marin	e water					0.00012	mg/l	
Normal value for fresh	n water sedi	ment				2.4	mg/kg	
Normal value for mari	ne water se	diment				0.24	mg/kg	
Normal value of STP	microorgani	sms				10	mg/l	
Normal value for the t	errestrial co	mpartment				1,1	mg/kg	
Health - Derived no-effe	ct level - D	NEL / DMEL						
	Effects or	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		5		5				
				mg/kg bw/d				
Inhalation			4.3	17.3			24.2	97.3
			mg/m3	mg/m3			mg/m3	mg/m3



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#### SECTION 8. Exposure controls/personal protection ... / >>

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION** 

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

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

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

viscous liquid **Appearance** Colour black Odour mild Not available Odour threshold Not available Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point 150 °C Evaporation Rate Not available Flammability of solids and gases Not available Not available Lower inflammability limit Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available Relative density Not available Solubility immiscible with water

Partition coefficient: n-octanol/water Not available
Auto-ignition temperature > 400 °C
Decomposition temperature Iiquid
Viscosity Iiquid
Explosive properties Not available
Oxidising properties Not available

#### 9.2. Other information

Information not available



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# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

LD50 (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

LD50 (Dermal) of the mixture:

Not classified (no significant component)

DECAMETHYLCYCLOPENTASILOXANE

LD50 (Oral) 4800 mg/kg (Rat)

AMORPHOUS SILICATE HYDRATE

 LD50 (Oral)
 > 2000 mg/kg Rat

 LD50 (Dermal)
 > 2000 mg/kg Rat

 LC50 (Inhalation)
 > 2.2 mg/l/1h Rat

OCTAMETHYLTETRACYCLOSILOXANE

LC50 (Inhalation) 2975 ppm/4h

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# ACC Silicones LTD SE2011A - SE2011A

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# SECTION 11. Toxicological information .../>>

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

#### 12.1. Toxicity

Information not available

#### 12.2. Persistence and degradability

AMORPHOUS SILICATE HYDRATE

Solubility in water 0,1 - 100 mg/l

Degradability: information not available

#### 12.3. Bioaccumulative potential

AMORPHOUS SILICATE HYDRATE

Partition coefficient: n-octanol/water 0.53

#### 12.4. Mobility in soil

Information not available

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

vPvB substances contained:



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#### SECTION 12. Ecological information .../>>

DODECAMETHYL CYCLOHEXASILOXANE OCTAMETHYLTETRACYCLOSILOXANE DECAMETHYLCYCLOPENTASILOXANE

PBT substances contained: OCTAMETHYLTETRACYCLOSILOXANE

#### 12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING** 

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

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

Not applicable

### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

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

Information not relevant

# **SECTION 15. Regulatory information**

Austrailia AICS: On or in compliance with the inventory.

Canada DSL Inventory List: On or in compliance with the inventory.

EINECS, ELINCS or NLP: On or in compliance with the inventory.

Japan (ENCS) List: On or in compliance with the inventory.

China Inv. Existing Chemical Substances: On or in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory.

US TSCA Inventory: On or in compliaince with the inventory.

New Zealand Inventory of Chemicals: On or in compliance with the inventory.

Taiwan Chemical Substance Inventory: On or in compliance with the inventory.





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### SECTION 15. Regulatory information .../>>

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: Non

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Contained substance

Point 70 OCTAMETHYLTETRACYCLOSILOXANE

Reg. no.: 01-2119529238-36

Point 70 DECAMETHYLCYCLOPENTASILOXANE

Reg. no.: 01-2119511367-43

Substances in Candidate List (Art. 59 REACH)
DODECAMETHYL CYCLOHEXASILOXANE

Reg. no.: 01-2119517435-42

**OCTAMETHYLTETRACYCLOSILOXANE** 

Reg. no.: 01-2119529238-36

**DECAMETHYLCYCLOPENTASILOXANE** 

Reg. no.: 01-2119511367-43

Substances subject to authorisarion (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls
Information not available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3 Repr. 2 Reproductive toxicity, category 2

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H226 Flammable liquid and vapour.
H361f Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects. EUH210 Safety data sheet available on request.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%



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#### SECTION 16. Other information .../>>

- OEL: Occupational Exposure Level- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 15.



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# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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

#### 1.1. Product identifier

Code: SE2011B
Product name SE2011B

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

Intended use Catalyst

1.3. Details of the supplier of the safety data sheet

Name ACC Silicones LTD

Full address Amber House Showground Road

District and Country TA6 6ABridgwater (Somerset)

England

Tel. +44(0)1278411400 Fax +44(0)1278411444

e-mail address of the competent person

responsible for the Safety Data Sheet info@acc-silicones.com

1.4. Emergency telephone number

For urgent inquiries refer to For all enquiries except Sweden and Hungary and Australia: +44(0)1278411400

Sweden: Ring 112 vid inträffade förgiftningstillbud och begär giftinformation -

dygnet runt.

Ring 010-456-6700 i mindre brådskande fall - dygnet runt. Allmänna och

förebyggande frågor om

akuta förgiftningar besvaras vardagar kl 9-17.

Hungary: Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ) 1097 Budapest, Nagyvárad tér 2, 06-80-201-199 (zöld szám, ingyenesen, éjjel-nappal

hívható) 06-1-4761120

Australia: DC Products Pty Ltd, Unit 117, 45 Gilby Road, Mount Waverley VIC 3149.

Tel +61 3 9558 8898, Emergeny contact number 0418529118

### **SECTION 2. Hazards identification**

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

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H413	May cause long lasting harmful effects to aquatic life.
toxicity, category 4		



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#### **SECTION 2. Hazards identification** .../>>

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:









Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

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

Continue rinsing.

P331 Do NOT induce vomiting.

Contains: ALKANES C9-12 ISODECANEAND ISOUNDECANE

> DIMETHYLTIN NEODECANOATE **AMINOPROPYLTRIETHOXYSILANE** Amino functional alkoxysilane

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

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

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**ALKANES C9-12 ISODECANEAND ISOUNDECANE** 

64742-48-9 50 ≤ x < 54 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Aquatic Chronic 4 H413, EUH066 CAS

EC 923-037-2

**INDEX** 

01-2119471991-29 Reg. no. Amino functional alkoxysilane

CAS  $11.5 \le x < 13$ Eye Dam. 1 H318, Skin Irrit. 2 H315

FC

INDEX

**AMINOPROPYLTRIETHOXYSILANE** 

CAS 919-30-2  $10 \le x < 11.5$ Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317

EC 213-048-4

**INDEX** 

01-2119480479-24 Reg. no.

@EPY 9.6.6 - SDS 1004.9





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#### SECTION 3. Composition/information on ingredients

**DIMETHYLTIN NEODECANOATE** 

CAS 68928-76-7 2.5 ≤ x < 3 Repr. 2 H361, Acute Tox. 4 H302, STOT RE 1 H372, Aquatic Chronic 4 H413

EC 273-028-6

INDEX

Siloxanes and silicones, di-Me hydroxy terminated, reaction product with 3-(triethoxysilyl)-1 propaneamine

CAS 749886-39-3 2 ≤ x < 2.5 Skin Corr. 1B H314, Eye Dam. 1 H318

EC INDEX

**OCTAMETHYLTETRACYCLOSILOXANE** 

CAS 556-67-2 0 ≤ x < 0.1 Flam. Liq. 3 H226, Repr. 2 H361f, Aquatic Chronic 2 H411

EC 209-136-7

INDEX

Reg. no. 01-2119529238-36

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

# **SECTION 5. Firefighting measures**

# 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

# 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# **SECTION 6. Accidental release measures**

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency



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#### SECTION 6. Accidental release measures .../>>

procedures.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

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

Information not available

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

### 8.1. Control parameters

Regulatory References:

EU OEL EU Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC;

Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

	ALKANES C9-12 ISODECANEAND ISOUNDECANE										
<b>Threshold Lim</b>	Threshold Limit Value										
Type	Country	TWA/8h		STEL/15	min						
		mg/m3	ppm	mg/m3	ppm						
OEL	EU	1200									



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### SECTION 8. Exposure controls/personal protection .../>>

			Amino funct	tional alkoxysi	lane			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0.33	mg/l	
Normal value for water, intermittent release 3.3 mg/l								
Normal value of STP	microorgan	isms				13	mg/l	
Health - Derived no-effe	ect level - C	ONEL / DMEL					-	
	Effects o	orkoro						
	LIICUS	II CONSUMEIS			Effects on w	/Orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
Route of exposure			Chronic local	Chronic systemic			Chronic local	Chronic systemic
Route of exposure	Acute	Acute			Acute	Acute		
	Acute	Acute			Acute local	Acute systemic	local	systemic
	Acute	Acute			Acute local	Acute systemic 58	local	systemic 58
Inhalation	Acute	Acute			Acute local VND	Acute systemic 58 mg/m3	local VND	systemic 58 mg/m3

			AMINOPROPY	LTRIETHOXYS	SILANE			
Predicted no-effect co	ncentration	- PNEC						
Normal value in fresh	n water					0.33	mg/l	
Normal value in mari	ne water					0.033	mg/l	
Normal value for fres	h water sedi	iment				0.26	mg/kg	
Normal value for wat	er, intermitte	ent release				3.3	mg/l	
Normal value of STP	microorgani	isms				13	mg/l	
Normal value for the	terrestrial co	mpartment				0.04	mg/kg	
lealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation							VND	59
								mg/m3
Skin							VND	8.3
								mg/kg
								bw/d

			OC.	TAMETHYLTET	RACYCLOS	LOXANE			
Threshold Limit Va	alue								
Type	Country	TWA/8h		STEL/15	min				
		mg/m3	ppm	mg/m3	ppm				
OEL	EU		10			RESP			
Predicted no-effec	t concentra	tion - PNEC	;						
Normal value in	marine wate	er					0.044	mg/l	
Normal value for	fresh water	sediment					0.128	mg/kg	
Normal value of	STP microo	rganisms					100	mg/l	
Normal value for	the terrestr	ial compartm	ent				0.16	mg/kg	
Health - Derived no	o-effect leve	el - DNEL / D	MEL						
	Effe	cts on consu	mers			Effects on w	orkers		
Route of exposu	re Acut	te Acu	te	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l syst	emic	local	systemic	local	systemic	local	systemic
Inhalation	61	305		61	305				
	mg/r	m3 mg/	m3	mg/m3	mg/m3				

#### Legend

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.



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#### SECTION 8. Exposure controls/personal protection ..../>

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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

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

liquid Appearance straw yellow Colour Odour characteristic Odour threshold Not available рΗ Not available Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point °C 32 Not available **Evaporation Rate** Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available Relative density Not available immiscible with water Solubility

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Not available
Explosive properties
Not available
Not available
Not available
Not available
Not available
Not available

#### 9.2. Other information

Information not available

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

Ε



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# SECTION 10. Stability and reactivity .../>>

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component)

LD50 (Oral) of the mixture: >2000 mg/kg

LD50 (Dermal) of the mixture: Not classified (no significant component)

AMINOPROPYLTRIETHOXYSILANE

LD50 (Dermal) > 2000 mg/kg

DIMETHYLTIN NEODECANOATE

LD50 (Oral) 894 mg/kg OECD Test Guideline 401

ALKANES C9-12 ISODECANEAND ISOUNDECANE

LD50 (Oral) > 5000 mg/kg

OCTAMETHYLTETRACYCLOSILOXANE

LC50 (Inhalation) 2975 ppm/4h

Amino functional alkoxysilane

 LD50 (Oral)
 > 1500 mg/kg (Rat)

 LD50 (Dermal)
 3800 mg/kg (Rabbit)

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Ε



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### SECTION 11. Toxicological information .../>>

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

# **SECTION 12. Ecological information**

This product may damage the structure and/or the functions of the aquatic ecosystems in the long and/or delayed term.

#### 12.1. Toxicity

**AMINOPROPYLTRIETHOXYSILANE** 

EC50 - for Crustacea 331 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Desmodesmus subspicatus (green algae)

ALKANES C9-12 ISODECANEAND ISOUNDECANE

LC50 - for Fish 1000 mg/l/96h Onchorhynchus mykiss (Rainbow trout)

### 12.2. Persistence and degradability

Information not available

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available



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# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1993

#### 14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (ALKANES C9-C12 ISODECANE)
IMDG: FLAMMABLE LIQUID, N.O.S. (ALKANES C9-C12 ISODECANE)
IATA: FLAMMABLE LIQUID, N.O.S. (ALKANES C9-C12 ISODECANE)

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

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



#### 14.4. Packing group

ADR / RID, IMDG, IATA: III

#### 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

P5c

Special Provision: -

IMDG:EMS: F-E, S-ELimited Quantities: 5 LIATA:Cargo:Maximum quantity: 220 L

Pass.: Maximum quantity: 60 L Packaging instructions: 355

Special Instructions: A

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

Information not relevant

# **SECTION 15. Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC:

Packaging instructions: 366

ΕN



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#### SECTION 15. Regulatory information ..../>>

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 4

Contained substance

Point 70 OCTAMETHYLTETRACYCLOSILOXANE

Reg. no.: 01-2119529238-36

Substances in Candidate List (Art. 59 REACH)

**OCTAMETHYLTETRACYCLOSILOXANE** 

Reg. no.: 01-2119529238-36

Substances subject to authorisarion (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3
Repr. 2 Reproductive toxicity, category 2

Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B Skin corrosion, category 1B
Eye Dam. 1 Serious eye damage, category 1
Skin Irrit. 2 Skin irritation, category 2
Skin Sens. 1 Skin sensitization, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2 Aquatic Chronic 4 Hazardous to the aquatic environment, chronic toxicity, category 4

**H226** Flammable liquid and vapour.

**H361** Suspected of damaging fertility or the unborn child.

**H361f** Suspected of damaging fertility.

H302 Harmful if swallowed.

**H372** Causes damage to organs through prolonged or repeated exposure.

**H304** May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.
H314 Causes severe skin burns and eve damage.

H314 Causes severe skin burns and eye damage.H318 Causes serious eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008



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#### SECTION 16. Other information .../>>

- DNEL: Derived No Effect Level- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

#### Changes to previous review:

The following sections were modified:

01.