according to Regulation (EC) No. 1907/2006



DOWSIL[™] 781 Acetoxy Sealant Black

Version	Revision Date:	SDS Number:	Date of last issue: 28.04.2017
1.7	17.10.2017	687299-00008	Date of first issue: 29.10.2014

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

1.1 Product identifier		
Trade name	:	DOWSIL™ 781 Acetoxy Sealant Black
Product code	:	04015554

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

Use of the Sub-	: Adhesive, binding agents
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

	DOW CHEMICAL COMPANY LIMITED STATION ROAD, BIRCH VALE, HIGH PEAK DERBYSHIRE England SK22 1BR UNITED KINGDOM
--	--

Telephone	: +44 (0) 1663 746518
Telefax	: +44 (0) 1663 746605
E-mail address of person responsible for the SDS	: SDSQuestion@dow.com

1.4 Emergency telephone number

24-Hour Emergency Contact	: 0031 115 694 982
Local Emergency Contact	: 00 31 115 69 4982

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling

EUH210 Safety data sheet available on request.

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2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Silicone elastomer

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Octamethylcyclotetrasiloxane	556-67-2 209-136-7 014-018-00-1 01-2119529238-36	Flam. Liq. 3; H226 Repr. 2; H361f Aquatic Chronic 4; H413	>= 0.25 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed None known.

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4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically and supportively.					
SECTIO	N 5: Firefighting meas	sur	es		
5.1 Extin	guishing media				
Suita	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical		
Unsı med	uitable extinguishing ia	:	None known.		
5.2 Spec	ial hazards arising from	the	substance or mi	xture	
Spec fight	cific hazards during fire- ing	:	Exposure to com	oustion products may be a hazard to health.	
Hazardous combustion prod- ucts		:	Carbon oxides Silicon oxides Formaldehyde Metal oxides Chlorine compou Nitrogen oxides (
5.3 Advid	ce for firefighters				
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.	
Spec thod	cific extinguishing me- s	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice and personal protective equip- ment recommendations.
6.2 Environmental precautions		
Environmental precautions	:	Discharge into the environment must be avoided.

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		cannot be cont	tained.
6.3 Metho	ds and material for c	ontainment and clea	aning up
Metho	ods for cleaning up	For large spills ment to keep r be pumped, st Clean up rema bent. Local or nation posal of this m employed in th mine which reg Sections 13 ar	hert absorbent material. a, provide dyking or other appropriate contain- naterial from spreading. If dyked material can ore recovered material in appropriate container. aining materials from spill with suitable absor- hal regulations may apply to releases and dis- aterial, as well as those materials and items he cleanup of releases. You will need to deter- gulations are applicable. hd 15 of this SDS provide information regarding r national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
7.2 Conditions for safe storage	e, incl	uding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage	9 :	Do not store with the following product types: Strong oxidizing agents
7.3 Specific end use(s)		
Specific use(s)	:	These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Amorphous fumed silica	112945-52- 5	TWA (inhalable dust)	6 mg/m3 (Silica)	GB EH40
Further information	fractions of air in accordance sampling and COSHH defin kind when pre 8-hour TWA of This means th above these le posure to these contain particul body response HSE distinguis 'inhalable' and borne materia fore available imates to the Fuller definition dusts contain limits should b	borne dust which wi with the methods de gravimetric analysis ition of a substance sent at a concentrat of inhalable dust or 4 hat any dust will be s evels. Some dusts has evels. Some dusts has evels. Some dusts has evels a wide range of lar particle after entry that it elicits, dependent shes two size fraction d 'respirable'., Inhala I that enters the nos for deposition in the fraction that penetrations and explanatory components that has be complied with., W	espirable dust and inhalable Il be collected when samplin escribed in MDHS14/3 Gene of respirable and inhalable of hazardous to health includes ion in air equal to or greater mg.m-3 8-hour TWA of resp ubject to COSHH if people a ave been assigned specific V the appropriate limit., Most in f sizes. The behaviour, depo y into the human respiratory nd on the nature and size of ns for limit-setting purposes ble dust approximates to the e and mouth during breathing respiratory tract. Respirable tes to the gas exchange regi material are given in MDHS1 ve their own assigned WEL, here no specific short-term e g-term exposure should be us	g is undertaken ral methods for dust, The s dust of any than 10 mg.m-3 birable dust. re exposed WELs and ex- ndustrial dusts obsition and fate system and the the particle. termed fraction of air- g and is there- dust approx- on of the lung. 4/3., Where all the relevant exposure limit is
	nsted, a lighte	TWA (Respirable dust)	2.4 mg/m3 (Silica)	GB EH40
Further information	fractions of air in accordance sampling and COSHH defin kind when pre 8-hour TWA of This means the above these le posure to these contain particul of any particul body response HSE distinguis 'inhalable' and borne materia fore available	ses of these limits, re- borne dust which wi with the methods de- gravimetric analysis ition of a substance sent at a concentrat of inhalable dust or 4 hat any dust will be s evels. Some dusts has evels. Some dusts has evels a wide range of a range of a range of a star ange o	espirable dust and inhalable espirable dust and inhalable II be collected when samplin escribed in MDHS14/3 Gene of respirable and inhalable of hazardous to health includes ion in air equal to or greater mg.m-3 8-hour TWA of resp ubject to COSHH if people a ave been assigned specific V the appropriate limit., Most in f sizes. The behaviour, depor y into the human respiratory nd on the nature and size of ns for limit-setting purposes ble dust approximates to the e and mouth during breathing respiratory tract. Respirable is to the gas exchange regin	g is undertaken ral methods for dust, The s dust of any than 10 mg.m-3 birable dust. re exposed WELs and ex- ndustrial dusts osition and fate system and the the particle. termed fraction of air- g and is there- dust approx-

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		dusts contain limits should b	components that has be complied with., V	ave their own assigr	in MDHS14/3., Where ned WEL, all the relevan ort-term exposure limit i ould be used
Titani	um dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40
Furth	er information	fractions of air in accordance sampling and COSHH defin kind when pre 8-hour TWA of This means th above these le posure to these contain particul body respons HSE distinguis 'inhalable' and borne materia fore available imates to the Fuller definition dusts contain limits should b	borne dust which we with the methods of gravimetric analysi- ition of a substance esent at a concentration of a wide range estate at a comply with es of a wide range estate at the estate est	vill be collected when described in MDHS1 is of respirable and i hazardous to health tion in air equal to o 4 mg.m-3 8-hour TW subject to COSHH in have been assigned the appropriate lim of sizes. The behav ry into the human re- end on the nature ar ons for limit-setting p able dust approxima se and mouth during e respiratory tract. F ates to the gas exch material are given i ave their own assign	h includes dust of any or greater than 10 mg.m VA of respirable dust. f people are exposed I specific WELs and ex- it., Most industrial dusts iour, deposition and fate espiratory system and th nd size of the particle. purposes termed ites to the fraction of air- g breathing and is there- despirable dust approx- ange region of the lung. in MDHS14/3., Where hed WEL, all the relevant port-term exposure limit is
Furth	er information	fractions of air in accordance sampling and COSHH defin kind when pre 8-hour TWA of This means th above these le posure to these contain particul body respons HSE distinguis 'inhalable' and borne materia fore available imates to the Fuller definition dusts contain	rborne dust which we with the methods of gravimetric analysi- ition of a substance esent at a concentra- of inhalable dust or a hat any dust will be evels. Some dusts l se must comply with les of a wide range lar particle after ent e that it elicits, depe- shes two size fraction d 'respirable'., Inhala d 'respirable'., Inhala d 'respirable'., Inhala for deposition in the fraction that penetra ons and explanatory components that ha	vill be collected when described in MDHS1 is of respirable and i hazardous to health tion in air equal to o 4 mg.m-3 8-hour TW subject to COSHH if have been assigned in the appropriate lim of sizes. The behav ry into the human re- rend on the nature ar ons for limit-setting p able dust approximal se and mouth during e respiratory tract. R ates to the gas exch material are given i ave their own assign	h includes dust of any or greater than 10 mg.m VA of respirable dust. f people are exposed I specific WELs and ex- it., Most industrial dusts iour, deposition and fate espiratory system and th nd size of the particle.
L	I) Oxide			g-term exposure sh 10 mg/m3	

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/ersion .7	Revision Da 17.10.2017	te: SDS Nu 687299-		te of last issue: 28.04.2 te of first issue: 29.10.2	
Furthe	er information	fractions of airbou in accordance wi sampling and gra COSHH definition kind when presen 8-hour TWA of in This means that above these leve posure to these r contain particles of any particular body response th HSE distinguishe 'inhalable' and 're borne material th fore available for imates to the frac Fuller definitions dusts contain cor limits should be co listed, a figure the	rne dust which wi th the methods de vimetric analysis of a substance i hat at a concentrat halable dust or 4 any dust will be s ils. Some dusts ha nust comply with of a wide range of particle after entry that it elicits, dependent to a wide range of particle after entry that it elicits, dependent to stwo size fraction espirable'., Inhaland at enters the nose deposition in the etion that penetrat and explanatory in ponents that have complied with., W ree times the long WA (Respirable	espirable dust and inhal lbe collected when sar escribed in MDHS14/3 (of respirable and inhala nazardous to health incl on in air equal to or gre mg.m-3 8-hour TWA of ubject to COSHH if peo ave been assigned spec the appropriate limit., M f sizes. The behaviour, y into the human respira and on the nature and siz ns for limit-setting purpor ble dust approximates the e and mouth during breat respiratory tract. Respiratory tract. Respiratory tract. Respiratory the gas exchange material are given in ME ve their own assigned V here no specific short-te- term exposure should 4 mg/m3	npling is undertaken General methods for able dust, The ludes dust of any eater than 10 mg.m-3 respirable dust. ple are exposed cific WELs and ex- lost industrial dusts deposition and fate atory system and the e of the particle. Dises termed the fraction of air- athing and is there- rable dust approx- e region of the lung. DHS14/3., Where VEL, all the relevant erm exposure limit is
Furthe	er information	For the purposes fractions of airbor in accordance wi sampling and gra COSHH definition kind when preser 8-hour TWA of in This means that above these leve posure to these r contain particular body response th HSE distinguishe 'inhalable' and 're borne material th fore available for imates to the frac Fuller definitions dusts contain cor limits should be o	rne dust which wi th the methods de wimetric analysis of a substance in that a concentrat halable dust or 4 any dust will be s ils. Some dusts ha nust comply with of a wide range of particle after entry hat it elicits, dependent somo size fraction espirable'., Inhalal at enters the nose deposition in the stion that penetrat and explanatory in ponents that have complied with., W	espirable dust and inhal ll be collected when sar escribed in MDHS14/3 (of respirable and inhala nazardous to health incl on in air equal to or gre mg.m-3 8-hour TWA of ubject to COSHH if peo ave been assigned spec the appropriate limit., M f sizes. The behaviour, / into the human respira nd on the nature and siz ns for limit-setting purpor ble dust approximates to e and mouth during brea respiratory tract. Respin es to the gas exchange material are given in ME //e their own assigned V here no specific short-to -term exposure should	npling is undertaken General methods for able dust, The ludes dust of any eater than 10 mg.m-3 respirable dust. ple are exposed cific WELs and ex- lost industrial dusts deposition and fate atory system and the e of the particle. Deses termed o the fraction of air- athing and is there- rable dust approx- e region of the lung. DHS14/3., Where VEL, all the relevant erm exposure limit is
Cobal blue s	t aluminate pinel	-	WA	0.1 mg/m3 (Cobalt)	GB EH40
	r information	and respiratory s responsiveness v airways have bee sometimes even	ensitisers) can ind via an immunolog come hyper-respo to tiny quantities,	ational asthma (also kno duce a state of specific ical, irritant or other me onsive, further exposure may cause respiratory om a runny nose to asth	airway hyper- chanism. Once the to the substance, symptoms. These

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		possible to id responsive. Is distinguished people with p clude the dise magens or re posure to sub vented. When dards of cont substances th sure be reduce short-term per management employees ex occupational lance., Capat are those which by inhalation' tact' or - are sessments of updated from has shown to ing cancer are those which: may cause he or - a substa cific short-term posure should phate., The 'S	entify in advance the 54 Substances that from substances we re-existing airway he ase themselves. The spiratory sensitisers obtances that can can re this is not possible rol to prevent worke hat can cause occup ced as low as is rease ak concentrations so is being considered xposed or liable to be asthma and there so health professional ole of causing occup ich: - are assigned ; or 'R42/43: May can listed in section C of the evidence for ago time to time, or any be a potential caus ad/or heritable genetic are assigned the eritable genetic dam ance or process listed m exposure limit is I d be used, Carcinog Sen' notation in the I	ose who are likely to can cause occupation hich may trigger the yper-responsiveness the latter substances s., Wherever it is rea- uuse occupational as e, the primary aim is rs from becoming hy pational asthma, CO sonably practicable. hould receive partice the appropriate over the degree of ri- pational asthma. The the risk phrase 'R42 uuse sensitisation by f HSE publication 'A gents implicated in our other substance wh e of occupational as ic damage. The ider risk phrases 'R45: M age'; 'R49: May cau ed in Schedule 1 of C isted, a figure three penic applies for coba- ist of WELs has bee	esponsive and it is im- become hyper- onal asthma should be symptoms of asthma ir s, but which do not in- are not classified asth- sonably practicable, ex- to apply adequate star /per-responsive. For SHH requires that expor Activities giving rise to ular attention when risk is appropriate for all stance which may cause consultation with an isk and level of surveil- identified substances : May cause sensitisation sthmagen? Critical as- ccupational asthma' as nich the risk assessment thma., Capable of cause nified substances inclu ay cause cancer'; 'R46 se cancer by inhalation COSHH., Where no spe- times the long-term ex- alt dichloride and sul- n assigned only to thos
C.I. P	igment Green	substances w 1328-53-6	hich may cause oc TWA (Dusts and	cupational asthma. 1 mg/m3	GB EH40
7			mists) STEL (Dusts and	(Copper) 2 mg/m3	GB EH40
			mists)	(Copper)	GD EH40
Iron h oxide	ydroxide	20344-49-4	TWA (Fumes)	5 mg/m3 (Iron)	GB EH40
Furth	er information	case for expo ticles generat usually after	osure limits where 'fu ted by chemical read volatilisation from m	ume' should normally ctions or condensed	apours. This is not the / be applied to solid pain from the gaseous state ne generation of fume is kidation or thermal GB EH40
				(Iron)	
Furth	er information	case for expo ticles generat usually after often accomp	osure limits where 'fu ted by chemical read volatilisation from m	nclude gases and va ume' should normally ctions or condensed	apours. This is not the / be applied to solid pa from the gaseous state ne generation of fume is kidation or thermal
		breakdown.			

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These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Amorphous fumed silica

Titanium dioxide

Cobalt aluminate blue spinel

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Titanium dioxide	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Ingestion	Long-term systemic effects	700 mg/kg bw/day
Iron(III) Oxide	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	10 mg/m3
C.I. Pigment Green 7	Workers	Inhalation	Long-term systemic effects	4 mg/m3
	Workers	Skin contact	Long-term systemic effects	450 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	225 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	45 mg/kg bw/day
Iron hydroxide oxide	Workers	Inhalation	Long-term systemic effects	10 mg/m3
	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
Octamethylcyclotetra- siloxane	Workers	Inhalation	Acute systemic ef- fects	73 mg/m3
	Workers	Inhalation	Acute local effects	73 mg/m3
	Workers	Inhalation	Long-term systemic effects	73 mg/m3
	Workers	Inhalation	Long-term local ef- fects	73 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	13 mg/m3
	Consumers	Inhalation	Acute local effects	13 mg/m3
	Consumers	Inhalation	Long-term systemic effects	13 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	13 mg/m3
	Consumers	Ingestion	Acute systemic ef- fects	3.7 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3.7 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Titanium dioxide	Fresh water	0.184 mg/l
	Marine water	0.0184 mg/l
	Intermittent use/release	0.193 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	1000 mg/kg
	Marine sediment	100 mg/kg
	Soil	100 mg/kg
C.I. Pigment Green 7	Fresh water sediment	10 mg/kg
	Marine sediment	1 mg/kg
	Soil	1 mg/kg
Octamethylcyclotetrasiloxane	Fresh water	0.00044 mg/l
	Marine water	0.000044 mg/l
	Fresh water sediment	0.64 mg/kg
	Marine sediment	0.064 mg/kg
	Soil	0.13 mg/kg
	Sewage treatment plant	> 10 mg/l

8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Eye protection	:	Wear the following personal protective equipment: Safety glasses
Hand protection Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

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Skin	and body protection		resistance data al potential. Skin contact must	e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).
Resp	piratory protection	,	ventilation is prov	rotection unless adequate local exhaust ided or exposure assessment demonstrates e within recommended exposure guidelines.
Filte	r type	: (Combined particu	lates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	paste
Colour	:	in accordance with the product description
Odour	:	Acetic acid
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	Not applicable
Flash point	:	> 100 °C Method: closed cup
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	No data available
Relative density	:	1.02
Solubility(ies) Water solubility	:	No data available

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	Partitio octano	n coefficient: n- I/water	:	No data available	9
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, dynamic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other ir	nformation			
	Molecu	ılar weight	:	No data available	9
	Self-igr	nition	:		r mixture is not classified as pyrophoric. The ture is not classified as self heating.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
10.4 Conditions to avoid Conditions to avoid	:	None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition : Formaldehyde

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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	Informa exposu	tion on likely routes of re	:	Skin contact Ingestion Eye contact	
	Acute t Not clas	oxicity ssified based on availa	ble i	nformation.	
	<u>Compo</u>	nents:			
	Octame	ethylcyclotetrasiloxar	ne:		
	Acute o	ral toxicity	:	LD50 (Rat): > 4,80 Assessment: The icity Remarks: On basi	substance or mixture has no acute oral tox-
	Acute ir	nhalation toxicity	:	Exposure time: 4 H Test atmosphere:	vapour substance or mixture has no acute inhala-
	Acute d	ermal toxicity	:	LD50 (Rabbit): > 2 Assessment: The toxicity Remarks: On basi	substance or mixture has no acute dermal

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation Remarks: Based on data from similar materials

Components:

Octamethylcyclotetrasiloxane:

Species: Rabbit Result: No skin irritation Remarks: On basis of test data.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: No eye irritation Remarks: Based on data from similar materials

Components:

Octamethylcyclotetrasiloxane:

Species: Rabbit

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Result: No eye irritation Remarks: On basis of test data.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Octamethylcyclotetrasiloxane:

Assessment: Does not cause skin sensitisation.

Test Type: Maximisation Test Species: Guinea pig Result: negative Remarks: On basis of test data.

Germ cell mutagenicity

Not classified based on available information.

Components:

Octamethylcyclotetrasiloxane:

Genotoxicity in vitro		Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: On basis of test data.
		Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative Remarks: On basis of test data.
		Test Type: Chromosome aberration test in vitro Result: negative Remarks: On basis of test data.
		Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: negative Remarks: On basis of test data.
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative Remarks: On basis of test data.
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: inhalation (vapour) Result: negative

according to Regulation (EC) No. 1907/2006



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			Remarks: On bas	is of test data.
			Test Type: Roder Species: Rat Application Route Result: negative Remarks: On bas	-
Germ sessn	cell mutagenicity- As- nent	:	Animal testing dic	I not show any mutagenic effects.
	nogenicity assified based on avai	lable	information.	
Repro	oductive toxicity			
Not cl	assified based on avai	lable	information.	
_	assified based on avai ponents:	lable	information.	
<u>Comp</u>			information.	
<u>Comp</u> Octar	oonents:		Test Type: Two-g Species: Rat, ma	: inhalation (vapour) is on fertility
<u>Comp</u> Octar Effect	<u>oonents:</u> nethylcyclotetrasilox		Test Type: Two-g Species: Rat, ma Application Route Symptoms: Effect Remarks: On bas Test Type: Prena Species: Rabbit Application Route	e and female : inhalation (vapour) :s on fertility is of test data. tal development toxicity study (teratogenicity :: inhalation (vapour) fects on foetal development

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Octamethylcyclotetrasiloxane:

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Exposure routes: inhalation (vapour)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg

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bw or less.

Repeated dose toxicity

Components:

Octamethylcyclotetrasiloxane:

Species: Rat Application Route: Ingestion Remarks: On basis of test data.

Species: Rat Application Route: inhalation (vapour) Remarks: On basis of test data.

Species: Rabbit Application Route: Skin contact Remarks: On basis of test data.

Aspiration toxicity

Not classified based on available information.

Further information

Components:

Octamethylcyclotetrasiloxane:

Remarks: Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Octamethylcyclotetrasiloxane:

Toxicity to fish	:	LC50 (Cyprinodon variegatus (sheepshead minnow)): > 0.0063 mg/l Exposure time: 336 h Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Mysidopsis bahia (opossum shrimp)): > 0.0091 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility
Toxicity to algae	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): >

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			0.022 mg/l Exposure time: 7 Remarks: No tox	2 h icity at the limit of solubility		
Tox ity)	Toxicity to fish (Chronic toxic- : ity)		NOEC: >= 0.0044 mg/l Species: Oncorhynchus mykiss (rainbow trout) Remarks: On basis of test data. No toxicity at the limit of solubility			
aqu	icity to daphnia and other atic invertebrates (Chron- xicity)		NOEC: >= 0.0079 Exposure time: 2 Species: Daphnia Remarks: On bas No toxicity at the	1 d a magna (Water flea) sis of test data.		
	toxicology Assessment onic aquatic toxicity	:	May cause long l	asting harmful effects to aquatic life.		
12.2 Per	sistence and degradabil	ity				
<u>Cor</u>	nponents:					
	amethylcyclotetrasiloxa degradability	ne:	Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T	3.7 %		
Sta	pility in water	:	pH: 7	life: 69.3 - 144 h (24.6 °C) est Guideline 111		
12.3 Bio	accumulative potential					
<u>Cor</u>	nponents:					
Oct	amethylcyclotetrasiloxa	ne:				
Bioa	accumulation	:		ales promelas (fathead minnow) factor (BCF): 12,400		
	tition coefficient: n- anol/water	:	log Pow: 6.48 (25	5.1 °C)		
	bility in soil data available					
12.5 Res	sults of PBT and vPvB as	sses	ssment			
<u>Cor</u>	nponents:					
Oct	amethylcyclotetrasiloxa	ne:				
Ass	essment	:		ethylcyclotetrasiloxane (D4) meets the cur- ex XIII criteria for PBT and vPvB. In Canada,		
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		However, D4 of substances. T dies shows tha strial food web rally occurring air that does n	assessed and deemed to meet the PiT criteria. does not behave similarly to known PBT/vPvB he weight of scientific evidence from field stu- at D4 is not biomagnifying in aquatic and terre- is. D4 in air will degrade by reaction with natu- hydroxyl radicals in the atmosphere. Any D4 in ot degrade by reaction with hydroxyl radicals is o deposit from the air to water, to land, or to ns.
12.6 Othe	er adverse effects		
No da	ata available		
SECTIO	N 13: Disposal cons	iderations	
13.1 Was	te treatment methods		
Prod	uct	According to the are not produce Waste codes states are states ar	accordance with local regulations. The European Waste Catalogue, Waste Codes at specific, but application specific. Should be assigned by the user, preferably in the waste disposal authorities.
Conta	aminated packaging	: Empty contain	ers should be taken to an approved waste han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

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

Remarks : N

: Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that dep- lete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pol- lutants	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable

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

The components of this product are reported in the following inventories:

REACH	:	All ingredients (pre-)registered or exempt.
AICS	:	All ingredients listed or exempt.
IECSC	:	All ingredients listed or exempt.
PICCS	:	All ingredients listed or exempt.
DSL	:	All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
TSCA	:	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of H-Statements			
H226	:	Flammable liquid and vapour.	
H361f	:	Suspected of damaging fertility.	
H413	:	May cause long lasting harmful effects to aquatic life.	
Full text of other abbreviations			
Aquatic Chronic	:	Chronic aquatic toxicity	

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GB EH	140	: USA. Workpla : Long-term exp	toxicity L - Workplace Exposure Limits ce Environmental Exposure Levels (WEEL) posure limit (8-hour TWA reference period) posure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road: AICS - Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

compile the Safety Data Sheet

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only

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to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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