

DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2016
1.6	28.04.2017	689491-00007	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	:	DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE
Product code	:	0000000003279120
1.2 Relevant identified uses of t	he s	substance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Adhesive, binding agents
1.3 Details of the supplier of the	e saf	fety data sheet
Company	:	Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe
PO box	:	65091
Telephone	:	English Tel: +49 611237507 Deutsch Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511170 Español Tel: +32 64511163
E-mail address of person responsible for the SDS	:	sdseu@dowcorning.com

1.4 Emergency telephone number

Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240

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.



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version 1.6	Revision Date: 28.04.2017	SDS Number: 689491-00007	Date of last issue: 28.11.2016 Date of first issue: 29.10.2014	
				1

EUH208 Contains 4,5-Dichloro-2-N-Octyl-4-Isothiazolin-3-One. May produce an allergic reaction.

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.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Octamethylcyclotetrasiloxane	556-67-2	Flam. Liq. 3; H226	>= 0.25 - < 1
	209-136-7	Repr. 2; H361f	
	014-018-00-1	Aquatic Chronic 4;	
	01-2119529238-36	H413	
4,5-Dichloro-2-N-Octyl-4-	64359-81-5	Acute Tox. 4; H302	>= 0.0025 - <
Isothiazolin-3-One	264-843-8	Acute Tox. 2; H330	0.025
		Acute Tox. 4; H312	
		Skin Corr. 1C; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1A; H317	
		Aquatic Acute 1;	
		H400	
		Aquatic Chronic 1;	
		H410	

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.

DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version 1.6	Revision Date: 28.04.2017		Number: 91-00007	Date of last issue: 28.11.2016 Date of first issue: 29.10.2014
		C V	Get medical atten Vash clothing bei	
In cas	e of eye contact		•	ater as a precaution. tion if irritation develops and persists.
lf swa	llowed	G	Get medical atten	NOT induce vomiting. tion. oughly with water.
4 0 Maat :			anta kathanuta	and deleved

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

4.3 Indication of any immediate medical attention and special treatment needed

rieaunem	Τı	reatment	
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: Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing	media
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Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Silicon oxides Formaldehyde Metal oxides Chlorine compounds Nitrogen oxides (NOx)
5.3 Advice for firefighters		In the event of fire, wear self-contained breathing apparatus

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so.



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version 1.6	Revision Date: 28.04.2017	SDS Number: 689491-00007	Date of last issue: 28.11.2016 Date of first issue: 29.10.2014
		Evacuate area	I.
SECTION	6: Accidental rele	ase measures	
6.1 Perso	nal precautions, prot	ective equipment ar	nd emergency procedures
	onal precautions	: Use personal	protective equipment. Indling advice and personal protective equip-
6.2 Enviro	onmental precautions	6	
Envir	onmental precautions	Prevent furthe Retain and dis	the environment must be avoided. r leakage or spillage if safe to do so. pose of contaminated wash water. es should be advised if significant spillages tained.
6.3 Metho	ds and material for o	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 natior	nert absorbent material. s, 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- nal regulations may apply to releases and dis-
		employed in th mine which re Sections 13 ar	aterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
6.4 Refere	ence to other section	s	
See section	ons: 7, 8, 11, 12 and 13	3.	

SECTION 7: Handling and storage

Technical measures		See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: l	Use only with adequate ventilation.
Advice on safe handling	۲ ۲ ۲	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.

DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version 1.6	Revision Date: 28.04.2017	-	DS Number: 39491-00007	Date of last issue: 28.11.2016 Date of first issue: 29.10.2014	
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 Condit	ions for safe storage,	inc	luding any incom	patibilities	
	Requirements for storage areas and containers		Keep in properly labelled containers. Store in accordance with the particular national regulations.		
Advice	Advice on common storage		Do not store with Strong oxidizing a	the following product types: agents	
7.3 Specif	ic end use(s)				
Speci	fic use(s)	:	•	s are for room temperature handling. Use at ture or aerosol/spray applications may re- autions.	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis		
Componente		of exposure)	Control parametero	Duoio		
Amorphous fumed	112945-52-	TWA (inhalable	6 mg/m3	GB EH40		
silica	5	dust)				
	5 For the purpos 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 ble' and 'respi	dust) ses of these limits, re- rborne 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 h se must comply with es of a wide range of lar particle after entri- e that it elicits, depen- shes two size fractio rable'., Inhalable dust	(Silica) espirable dust and inhalable of respirable and inhalable of respirable and inhalable of respirable and inhalable hazardous to health includes ion in air equal to or greater to mg.m-3 8-hour TWA of resp ubject to COSHH if people and ave been assigned specific V the appropriate limit., Most in f sizes. The behaviour, depo y into the human respiratory so and on the nature and size of to ns for limit-setting purposes to st approximates to the fraction	dust are those g is undertaken ral methods for lust, The dust of any than 10 mg.m-3 irable dust. re exposed VELs and ex- ndustrial dusts sition and fate system and the the particle. termed 'inhala- n of airborne		
	material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller					
	definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits					
	should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					
		TWA (Respirable	2.4 mg/m3	GB EH40		

according to Regulation (EC) No. 1907/2006



28.04.2017	689491-0	00007 Da	ate of first issue: 29.7	10.2014
	du	st)	(Silica)	I
Further information	fractions of airborn in accordance with sampling and grav COSHH definition kind when present 8-hour TWA of inh This means that a above these levels posure to these m contain particles of of any particular p body response that HSE distinguishes ble' and 'respirable material that enter available for depo to the fraction that definitions and exp contain componer	the dust which with the methods d vimetric analysis of a substance that a concentrate alable dust or 4 ny dust will be s s. Some dusts h ust comply with f a wide range of article after entrate at it elicits, depend to size fraction e'., Inhalable dus so the nose and sition in the resp penetrates to the planatory materiants that have the	ill be collected when escribed in MDHS14 of respirable and in hazardous to health ion in air equal to or mg.m-3 8-hour TW, ubject to COSHH if ave been assigned s the appropriate limit of sizes. The behavior y into the human res nd on the nature and ns for limit-setting p st approximates to the mouth during breath biratory tract. Respira- ne gas exchange reg al are given in MDH ir own assigned WE	includes dust of any greater than 10 mg. A of respirable dust. people are exposed specific WELs and e t., Most industrial dus our, deposition and f spiratory system and d size of the particle. urposes termed 'inha ne fraction of airborn
Titanium dioxide		/A (inhalable	exposure should be 10 mg/m3	used GB EH40
Further information	fractions of airborn in accordance with sampling and grav COSHH definition kind when present 8-hour TWA of inh This means that a above these levels posure to these m contain particles of of any particular p body response tha HSE distinguishes ble' and 'respirable material that enter available for depo to the fraction that definitions and exp contain componer should be complie a figure three time	the dust which with the methods divimetric analysis of a substance at a concentration of a substance at a concentration of a substance at a concentration of the substance of th	ill be collected when escribed in MDHS14 of respirable and in hazardous to health ion in air equal to or mg.m-3 8-hour TW, ubject to COSHH if ave been assigned s the appropriate limit of sizes. The behavior y into the human res nd on the nature and ns for limit-setting p st approximates to the mouth during breath biratory tract. Respira- ne gas exchange reg al are given in MDH ir own assigned WE	includes dust of any greater than 10 mg. A of respirable dust. people are exposed specific WELs and e t., Most industrial du bur, deposition and f spiratory system and d size of the particle. urposes termed 'inha he fraction of airborn ing and is therefore able dust approxima gion of the lung. Fulle S14/3., Where dusts iL, all the relevant lin m exposure limit is list

according to Regulation (EC) No. 1907/2006



Version 1.6	Revision Da 28.04.2017		Date of last issue: 28.11.2016 Date of first issue: 29.10.2014	
		sampling and gravimetric analys COSHH definition of a substand kind when present at a concent 8-hour TWA of inhalable dust or This means that any dust will be above these levels. Some dusts posure to these must comply wi contain particles of a wide range of any particular particle after er body response that it elicits, dep HSE distinguishes two size frac- ble' and 'respirable'., Inhalable of material that enters the nose an available for deposition in the re- to the fraction that penetrates to definitions and explanatory mate contain components that have the should be complied with., When a figure three times the long-ter	e hazardous to health include ation in air equal to or greater 4 mg.m-3 8-hour TWA of resp subject to COSHH if people a have been assigned specific th the appropriate limit., Most of sizes. The behaviour, dep netry into the human respiratory bend on the nature and size of tions for limit-setting purposes lust approximates to the fraction d mouth during breathing and spiratory tract. Respirable dus the gas exchange region of the erial are given in MDHS14/3., " heir own assigned WEL, all the e no specific short-term expose	s dust of any than 10 mg.m-3 birable dust. are exposed WELs and ex- industrial dusts osition and fate system and the the particle. termed 'inhala- on of airborne is therefore at approximates he lung. Fuller Where dusts a relevant limits ure limit is listed,
Iron(II) Oxide	1309-37-1 TWA (inhalable dust)	10 mg/m3	GB EH40
	r information	For the purposes of these limits fractions of airborne dust which in accordance with the methods sampling and gravimetric analys COSHH definition of a substand kind when present at a concent 8-hour TWA of inhalable dust or This means that any dust will be above these levels. Some dusts posure to these must comply wi contain particles of a wide range of any particular particle after er body response that it elicits, dep HSE distinguishes two size frac- ble' and 'respirable'., Inhalable of material that enters the nose an available for deposition in the re to the fraction that penetrates to definitions and explanatory mate contain components that have t should be complied with., When a figure three times the long-ter TWA (Respirable dust)	will be collected when samplir described in MDHS14/3 Gene sis of respirable and inhalable e hazardous to health include ration in air equal to or greater 4 mg.m-3 8-hour TWA of resp e subject to COSHH if people a have been assigned specific th the appropriate limit., Most e of sizes. The behaviour, dep- netry into the human respiratory bend on the nature and size of tions for limit-setting purposes lust approximates to the fraction d mouth during breathing and spiratory tract. Respirable dus the gas exchange region of the erial are given in MDHS14/3., 'n heir own assigned WEL, all the e no specific short-term expose m exposure should be used 4 mg/m3	ng is undertaken eral methods for dust, The s dust of any than 10 mg.m-3 pirable dust. are exposed WELs and ex- industrial dusts osition and fate system and the the particle. termed 'inhala- pon of airborne is therefore at approximates he lung. Fuller Where dusts e relevant limits ure limit is listed, GB EH40
Furthe	r information	For the purposes of these limits fractions of airborne dust which in accordance with the methods sampling and gravimetric analys COSHH definition of a substance kind when present at a concent 8-hour TWA of inhalable dust or	will be collected when samplir described in MDHS14/3 Gene sis of respirable and inhalable e hazardous to health include ation in air equal to or greater	ng is undertaken eral methods for dust, The s dust of any than 10 mg.m-3

according to Regulation (EC) No. 1907/2006



rsion Revision Da 28.04.2017		Number: 91-00007	Date of last issue: 28.1 Date of first issue: 29.1	
	above these le posure to these contain particle of any particue body respons HSE distinguite ble' and 'respin material that e available for contain to the fraction definitions and contain composition	evels. Some se must comp les of a wide lar particle af e that it elicits shes two size rable'., Inhala enters the nos leposition in t that penetrat d explanatory onents that h nplied with., N	vill be subject to COSHH if p dusts have been assigned s oly with the appropriate limit, range of sizes. The behavio ter entry into the human res s, depend on the nature and e fractions for limit-setting put able dust approximates to the se and mouth during breathing he respiratory tract. Respira- tes to the gas exchange reg material are given in MDHS ave their own assigned WEI Where no specific short-term	pecific WELs and ex- , Most industrial dusts our, deposition and fate piratory system and the size of the particle. Autores termed 'inhalate fraction of airborne and is therefore able dust approximates ion of the lung. Fuller S14/3., Where dusts L, all the relevant limits on exposure limit is lister
Cobalt aluminate blue spinel	a figure three 1345-16-0	times the lon TWA	g-term exposure should be 0.1 mg/m3 (Cobalt)	GB EH40
Further information	and respirator responsivenes airways have sometimes ev symptoms can who are expo- possible to ide responsive. 5 distinguished people with pi- clude the dise asthmagens of exposure to s vented. When standards of of substances th sure be reduce short-term per management employees ex occupational a occupational a occupational a occupational a occupational a sessments of updated from has shown to ing cancer an those which: may cause he or - a substa	y sensitisers) ss via an imm become hype ven to tiny qua n range in sev sed to a sense entify in adva 54 Substance from substan re-existing air ase themselv or respiratory ubstances the e this is not p control to prev- nat can cause ed as low as ak concentrat is being cons- posed or liab asthma and the health profess- or 'R42/43: N isted in section the evidence time to time, be a potentia d/or heritable entiable genet ince or process	e occupational asthma (also) can induce a state of speci- nunological, irritant or other in er-responsive, further expos- antities, may cause respirator verity from a runny nose to a ditiser will become hyper-res- nce those who are likely to b s that can cause occupation ces which may trigger the s way hyper-responsiveness, ves. The latter substances a sensitisers., Wherever it is n at can cause occupational a ossible, the primary aim is t vent workers from becoming occupational asthma, COS is reasonably practicable. A tions should receive particul- idered. Health surveillance le to be exposed to a substa- nere should be appropriate of sional over the degree of ris occupational asthma. The i igned the risk phrase 'R42: I May cause sensitisation by it on C of HSE publication 'Ast for agents implicated in occ or any other substance which a cause of occupational asth- genetic damage. The ident d the risk phrases 'R45: Ma ic damage'; 'R49: May caus- ss listed in Schedule 1 of CO mit is listed, a figure three tin	ific airway hyper- mechanism. Once the ure to the substance, ory symptoms. These asthma. Not all worker ponsive and it is im- become hyper- nal asthma should be ymptoms of asthma in but which do not in- re not classified reasonably practicable sthma should be pre- o apply adequate hyper-responsive. For HH requires that expon- tion and should be pre- o apply adequate hyper-responsive. For HH requires that expon- to a ttention when risk is appropriate for all ance which may cause consultation with an k and level of surveil- dentified substances May cause sensitisation inhalation and skin cor thmagen? Critical as- cupational asthma' as ch the risk assessmen- ma., Capable of cause ified substances inclu- y cause cancer'; 'R46 e cancer by inhalation DSHH., Where no spe

according to Regulation (EC) No. 1907/2006



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version 1.6	Revision Da 28.04.2017			ate of last issue: 28.11.2016 ate of first issue: 29.10.2014	
			en' notation in the li hich may cause occ	st of WELs has been assigne upational asthma.	d only to those
C.I. P 7	igment Green	1328-53-6	TWA (Dusts and mists)	1 mg/m3 (Copper)	GB EH40
			STEL (Dusts and mists)	2 mg/m3 (Copper)	GB EH40
Iron h oxide	ydroxide	20344-49-4	TWA (Fumes)	5 mg/m3 (Iron)	GB EH40
Furthe	er information	n The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid ticles generated by chemical reactions or condensed from the gaseous si usually after volatilisation from melted substances. The generation of fum often accompanied by a chemical reaction such as oxidation or thermal breakdown.			ed to solid par- gaseous state, tion of fume is
			STEL (Fumes)	10 mg/m3 (Iron)	GB EH40
Furthe	er information	The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.			
	nethylcyclo- iloxane	556-67-2	TWA	10 ppm	US WEEL

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-	Value
			fects	
Titanium dioxide	Workers	Inhalation	Long-term local ef-	10 mg/m3
			fects	0
	Consumers	Ingestion	Long-term systemic	700 mg/kg
			effects	bw/day
Iron(III) Oxide	Workers	Inhalation	Long-term local ef-	10 mg/m3
			fects	0
	Workers	Inhalation	Long-term systemic	10 mg/m3
			effects	°,
C.I. Pigment Green 7	Workers	Inhalation	Long-term systemic	4 mg/m3
J. J			effects	Ū.
	Workers	Skin contact	Long-term systemic	450 mg/kg
			effects	bw/day
	Consumers	Skin contact	Long-term systemic	225 mg/kg
			effects	bw/day
	Consumers	Ingestion	Long-term systemic	45 mg/kg

according to Regulation (EC) No. 1907/2006



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

ersion 6	Revision Date: 28.04.2017	SDS Nur 689491-(te of last issue: 28.11.2016 te of first issue: 29.10.2014	
1				effects	bw/day
Iron h	ydroxide oxide	Workers	Inhalation	Long-term systemic effects	10 mg/m3
		Workers	Inhalation	Long-term local ef- fects	10 mg/m3
Octar siloxa	nethylcyclotetra- ine	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

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
4,5-Dichloro-2-N-Octyl-4-	Fresh water	0.034 µg/l
Isothiazolin-3-One		
	Fresh water sediment	0.41 mg/kg
	Marine sediment	0.0034 mg/kg
	Sewage treatment plant	0.064 mg/l
	Soil	0.062 mg/kg
	Oral (Secondary Poisoning)	4.49 mg/kg food
	Marine water	0.0068 µg/l

DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2016
1.6	28.04.2017	689491-00007	Date of first issue: 29.10.2014

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 equipmer	nt
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.
Skin and body protection :	 Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
Respiratory protection :	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type	Combined particulates 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	:	Not applicable

according to Regulation (EC) No. 1907/2006



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Vers 1.6	sion	Revision Date: 28.04.2017		S Number: 9491-00007	Date of last issue: 28.11.2016 Date of first issue: 29.10.2014
	range				
	Flash p	oint	:	> 100 °C Method: closed o	up
	Evapor	ation rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	Not classified as	a flammability hazard
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	No data available)
	Relative	e density	:	1.04	
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n- /water	:	No data available	9
	Auto-ig	nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, dynamic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidiziı	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other ir	formation			
	Molecu	lar weight	:	No data available	3
	Self-igr	hition	:		mixture is not classified as pyrophoric. The ure is not classified as self heating.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

Version 1.6	Revision Date: 28.04.2017	-	S Number: 9491-00007	Date of last issue: 28.11.2016 Date of first issue: 29.10.2014	
10.2 Cher	nical stability				
Stabl	e under normal conditi	ons.			
	ibility of hazardous r	eactio	ons		
Haza	rdous 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 Cond	ditions to avoid				
Cond	itions to avoid	:	None known.		
10.5 Inco	mpatible materials				
Mate	rials to avoid	:	Oxidizing age	nts	
10.6 Haza	rdous decompositio	n proc	lucts		
	mal decomposition	:	Formaldehyde	9	
	mation on toxicologion nation on likely routes sure		ects Skin contact Ingestion Eye contact		
	e toxicity lassified based on ava	ilable	information.		
Com	ponents:				
Octa	methylcyclotetrasilo	ane:			
Acute	e oral toxicity	:	icity	4,800 mg/kg The substance or mixture has no acute oral tox- pasis of test data.	
Acute	e inhalation toxicity	:	tion toxicity	: 4 h	
Acute	e dermal toxicity	:	Assessment: T toxicity	> 2.5 ml/kg The substance or mixture has no acute dermal basis of test data.	

according to Regulation (EC) No. 1907/2006



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2016
1.6	28.04.2017	689491-00007	Date of first issue: 29.10.2014

4,5-Dichloro-2-N-Octyl-4-Isothiazolin-3-One:

Acute oral toxicity	:	LD50 (Rat): 1,636 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0.26 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: Corrosive to the respiratory tract.
Acute dermal toxicity	:	Acute toxicity estimate: 1,100 mg/kg Method: Expert judgement

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.

4,5-Dichloro-2-N-Octyl-4-Isothiazolin-3-One:

Result: Corrosive after 1 to 4 hours of exposure

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

4,5-Dichloro-2-N-Octyl-4-Isothiazolin-3-One:

Result: Irreversible effects on the eye Remarks: Based on skin corrosivity.

according to Regulation (EC) No. 1907/2006



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2016
1.6	28.04.2017	689491-00007	Date of first issue: 29.10.2014

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.

4,5-Dichloro-2-N-Octyl-4-Isothiazolin-3-One:

Test Type: Maximisation Test Exposure routes: Skin contact Species: Guinea pig Result: positive

Assessment: Probability or evidence of high skin sensitisation rate in humans

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

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DOW CORNING

Version 1.6	Revision Date: 28.04.2017	-	DS Number: 9491-00007	Date of last issue: 28.11.2016 Date of first issue: 29.10.2014
			Remarks: On bas	is of test data.
Geno	otoxicity in vivo	:	cytogenetic assay Species: Rat Application Route Result: negative Remarks: On bas	e: inhalation (vapour) is of test data.
			Species: Rat Application Route Result: negative Remarks: On bas	-
Gern sessi	n cell mutagenicity- As- ment	:	Animal testing did	not show any mutagenic effects.
	inogenicity classified based on availa	able	information.	
-	oductive toxicity	able	information.	
Com	ponents:			
Octa	methylcyclotetrasiloxa	ne:		
Effec	sts on fertility	:	Species: Rat, ma	e: inhalation (vapour) ts on fertility
Effec ment	ets on foetal develop-	:	Species: Rabbit Application Route	tal development toxicity study (teratogenicity) e: inhalation (vapour) fects on foetal development is of test data.
Repr sessi	oductive toxicity - As- ment	:		f adverse effects on sexual function and animal experiments.
4,5-D	Dichloro-2-N-Octyl-4-Iso	othi	azolin-3-One:	
Effec	cts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effec ment	ets on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development : Ingestion

DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2016
1.6	28.04.2017	689491-00007	Date of first issue: 29.10.2014

STOT - single exposure

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 (

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 bw or less.

4,5-Dichloro-2-N-Octyl-4-Isothiazolin-3-One:

Exposure routes: Ingestion Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg 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.

4,5-Dichloro-2-N-Octyl-4-Isothiazolin-3-One:

Species: Rat NOAEL: 20 mg/kg LOAEL: 100 mg/kg Application Route: Ingestion Exposure time: 28 Days



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2016
1.6	28.04.2017	689491-00007	Date of first issue: 29.10.2014

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:

ootamotifyioyolototi aonoxai		
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)): > 0.022 mg/l Exposure time: 72 h Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic tox- icity)	:	NOEC: >= 0.0044 mg/l Species: Oncorhynchus mykiss (rainbow trout) Remarks: On basis of test data. No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: >= 0.0079 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: On basis of test data. No toxicity at the limit of solubility
Ecotoxicology Assessment Chronic aquatic toxicity	:	May cause long lasting harmful effects to aquatic life.

according to Regulation (EC) No. 1907/2006



Vers 1.6	sion	Revision Date: 28.04.2017		9491-00007	Date of last issue: 28.11.2016 Date of first issue: 29.10.2014
	4,5-Dichloro-2-N-Octyl-4-Isothiazolin-3-One:				
	Toxicity to fish		:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0027 mg/l Exposure time: 96 h	
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0052 mg/l 3 h
	Toxicity to algae		:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.07 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
	M-Factor (Acute aquatic tox- icity)		:	100	
	Toxicity	/ to microorganisms	:	EC50 : > 5.7 mg/l Exposure time: 3 h	
	Toxicity to fish (Chronic tox- icity)		:	NOEC: 0.00056 n Exposure time: 97 Species: Oncorhy	
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC: 0.00063 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)	
	M-Fact toxicity	or (Chronic aquatic)	:	: 10	
12.2	Persis	tence and degradabil	ity		
	Components:				
	Octamethylcyclotetrasiloxane:				
	Biodeg	radability	:	Result: Not readily Biodegradation: 3 Exposure time: 28 Method: OECD To	3.7 % 3 d
Stability in water : Degradation half life: 69.3 - 144 h (24.6 °C) pH: 7Method: OECD Test Guideline 111					
	4,5-Dichloro-2-N-Octyl-4-Isothiazolin-3-One:				
		radability	:		gradable
12.3 Bioaccumulative potential					
	Components:				
		ethylcyclotetrasiloxa umulation	ne: :	Species: Pimepha	ales promelas (fathead minnow)
				10/00	

according to Regulation (EC) No. 1907/2006



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version 1.6	Revision Date: 28.04.2017		S Number: 9491-00007	Date of last issue: 28.11.2016 Date of first issue: 29.10.2014			
			Bioconcentration	factor (BCF): 12,400			
	Partition coefficient: n- octanol/water		log Pow: 6.48 (25.1 °C)				
4,5	-Dichloro-2-N-Octyl-4-Is	othia	zolin-3-One:				
Bic	accumulation	÷	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 750				
	rtition coefficient: n- anol/water	:	log Pow: 2.8				
No	 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment 						
Co	mponents:						
Octamethylcyclotetrasiloxane:							
Assessment :		Remarks: Octamethylcyclotetrasiloxane (D4) meets the cur- rent REACh Annex XIII criteria for PBT and vPvB. In Canad D4 has been assessed and deemed to meet the PiT criteria However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field stud- ies shows that D4 is not biomagnifying in aquatic and terres trial food webs. D4 in air will degrade by reaction with natura occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is n expected to deposit from the air to water, to land, or to living organisms.					
	12.6 Other adverse effects No data available						
SECTION 13: Disposal considerations							
13.1 Wa	13.1 Waste treatment methods						
Product		:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.				

		Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

according to Regulation (EC) No. 1907/2006



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2016
1.6	28.04.2017	689491-00007	Date of first issue: 29.10.2014

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 : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

-			
	REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Dimethylbis[(1- oxoneodecyl)oxy]stannane (20)
	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
	Regulation (EC) No 1005/2009 on substances that deplete 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
	Sources III, Directive 2012/18/ELL of the European Darlies	oont	and of the Council on the control of

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.

according to Regulation (EC) No. 1907/2006



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2016
1.6	28.04.2017	689491-00007	Date of first issue: 29.10.2014

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.
H302 :	:	Harmful if swallowed.
H312 :	:	Harmful in contact with skin.
H314 :	:	Causes severe skin burns and eye damage.
H317 :	:	May cause an allergic skin reaction.
H318 :	:	Causes serious eye damage.
H330 :	:	Fatal if inhaled.
H361f :	:	Suspected of damaging fertility.
H400 :	:	Very toxic to aquatic life.
H410 :	:	Very toxic to aquatic life with long lasting effects.
H413 :	:	May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Flam. Liq. Repr. Skin Corr. Skin Sens. GB EH40 US WEEL GB EH40 / TWA GB EH40 / STEL		Acute toxicity Acute aquatic toxicity Chronic aquatic toxicity Serious eye damage Flammable liquids Reproductive toxicity Skin corrosion Skin sensitisation UK. EH40 WEL - Workplace Exposure Limits USA. Workplace Environmental Exposure Levels (WEEL) Long-term exposure limit (8-hour TWA reference period) Short-term exposure limit (15-minute reference period)
US WEEL / TWA	:	Time weighted average

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



DOW CORNING(R) 785 SANITARY ACETOXY SILICONE WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2016
1.6	28.04.2017	689491-00007	Date of first issue: 29.10.2014

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; 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

Sources of key data used to : compile the Safety Data Sheet 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 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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