

DOW CORNING(R) 791 WEATHERPROOFING SEALANT WHITE

Version	Revision Date:	SDS Number:	Date of last issue: 15.11.2016
1.6	15.03.2017	853992-00007	Date of first issue: 28.11.2014

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

1.1 Product identifier	
Trade name	: DOW CORNING(R) 791 WEATHERPROOFING SEALANT WHITE
Product code	: 0000000004024912
1.2 Relevant identified uses o	of the substance or mixture and uses advised against
Use of the Sub- stance/Mixture	: Construction materials and additives
1.2 Dotails of the supplier of t	the sefety data sheet

1.3 Details of the supplier of the safety data sheet

Company	:	Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe	;
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.

Precautionary statements

[:] Prevention:

P271 Use only outdoors or in a well-ventilated area.

Additional Labelling

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EUH210 EUH208

Safety data sheet available on request.

Contains Methyltrimethoxysilane. 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		
Methyltrimethoxysilane	1185-55-3	Flam. Liq. 2; H225	>= 0.1 - < 1
	214-685-0	Skin Sens. 1B; H317	
	01-2119517436-40		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders	No special precautions are necessary for	or first aid responders.
If inhaled	If inhaled, remove to fresh air. Get medical attention if symptoms occu	ır.
In case of skin contact	Wash with water and soap as a precaut Get medical attention if symptoms occu	
In case of eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develo	ps and persists.
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occu Rinse mouth thoroughly with water.	

: May produce an allergic reaction.

4.2 Most important symptoms and effects, both acute and delayed

Risks

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.



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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing med	ia :	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from	om the	e substance or mixture
Specific hazards during fire fighting)- :	Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion pro ucts	d- :	Carbon oxides Metal oxides Silicon oxides Formaldehyde Chlorine compounds Nitrogen oxides (NOx) Sulphur oxides
5.3 Advice for firefighters		
Special protective equipme for firefighters	ent :	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
Specific extinguishing methods)- :	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. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Follow safe handling advice and personal protective equip- ment recommendations.
6.2 Environmental precautions		
Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
	certain local or 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

	9	
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	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,	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	:	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
Calcium carbonate	471-34-1	TWA (inhalable dust)	10 mg/m3	GB EH40
Further information	fractions of air in accordance sampling and COSHH defini- kind when pre 8-hour TWA of This means the above these lee posure to these contain particul body response HSE distinguis ble' and 'respini- material that e available for d to the fraction definitions and contain compo- should be con	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. Some dusts has evels and the second lar particle after entry that it elicits, dependent shes two size fraction rable'., Inhalable dust enters the nose and the leposition in the resp that penetrates to the d explanatory materian onents that have the applied with., Where response	espirable dust and inhalable Il be collected when sampling escribed in MDHS14/3 Gene of respirable and inhalable of hazardous to health includes ion in air equal to or greater f mg.m-3 8-hour TWA of resp ubject to COSHH if people al ave been assigned specific V the appropriate limit., Most ir f sizes. The behaviour, depo y into the human respiratory s and on the nature and size of f ns for limit-setting purposes f at approximates to the fractio mouth during breathing and i irratory tract. Respirable dust al are given in MDHS14/3., V ir own assigned WEL, all the no specific short-term exposu- exposure should be used	g is undertaken ral methods for dust, The dust of any than 10 mg.m-3 irable dust. re exposed VELs and ex- ndustrial dusts osition and fate system and the the particle. termed 'inhala- n of airborne s therefore approximates e lung. Fuller Vhere dusts relevant limits
		TWA (Respirable dust)	4 mg/m3	GB EH40
Further information	fractions of air in accordance sampling and COSHH definikind when pre 8-hour TWA of This means the above these left posure to these contain particul of any particul body response HSE distinguis ble' and 'respinistication material that e available for d	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 e that it elicits, dependent shes two size fraction rable'., Inhalable dust enters the nose and leposition in the resp	espirable dust and inhalable Il be collected when sampling escribed in MDHS14/3 Gene of respirable and inhalable of hazardous to health includes ion in air equal to or greater f 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 f ns for limit-setting purposes f at approximates to the fractio mouth during breathing and i piratory tract. Respirable dust are gas exchange region of the	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 s therefore approximates

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	contain compon should be comp	ents that have the lied with., Where r	ir own assigned WE	S14/3., Where dusts L, all the relevant lim m exposure limit is lis
Calaium aarbanata				
Calcium carbonate treated with stearic acid		ſWA (inhalable lust)	10 mg/m3	GB EH40
Further information	fractions of airbo in accordance w sampling and gr COSHH definition kind when prese 8-hour TWA of i This means that above these leve posure to these contain particles of any particular body response t HSE distinguish ble' and 'respiral material that ent available for dep to the fraction the definitions and e contain compon should be comp	orne dust which wi with the methods d avimetric analysis on of a substance ent at a concentrat nhalable dust or 4 any dust will be s els. Some dusts h must comply with s of a wide range of particle after entr that it elicits, dependent es two size fraction ble'., Inhalable dust ters the nose and position in the resp nat penetrates to the explanatory materia ents that have the lied with., Where r	Il be collected when escribed in MDHS14 of respirable and in hazardous to health ion in air equal to or mg.m-3 8-hour TWA 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 pr 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 ex- t., Most industrial dus our, deposition and fa- spiratory system and d size of the particle. urposes termed 'inha he fraction of airborne ing and is therefore able dust approximat gion of the lung. Fulle S14/3., Where dusts EL, all the relevant lim m exposure limit is lis
	1	TWA (Respirable Iust)	4 mg/m3	GB EH40
Further information	For the purpose fractions of airbo in accordance w sampling and gr COSHH definitio kind when prese 8-hour TWA of i This means that above these lev posure to these contain particles of any particular body response t HSE distinguish ble' and 'respiral material that ent available for dep to the fraction th definitions and e	s of these limits, re- prime dust which will with the methods d ravimetric analysis on of a substance ent at a concentrat inhalable dust or 4 any dust will be s els. Some dusts h must comply with s of a wide range of particle after entre- that it elicits, depen- es two size fraction ble'., Inhalable dust ters the nose and position in the response to the the transport that penetrates to the explanatory materi	Il be collected when escribed in MDHS14 of respirable and in hazardous to health ion in air equal to or mg.m-3 8-hour TWA ubject to COSHH if ave been assigned s the appropriate limit of sizes. The behavior y into the human res and on the nature and ns for limit-setting post approximates to the mouth during breath piratory tract. Respira- ne gas exchange reg	includes dust of any greater than 10 mg. A of respirable dust. people are exposed specific WELs and ex t., Most industrial dus our, deposition and fa spiratory system and d size of the particle. urposes termed 'inha he fraction of airborne ing and is therefore able dust approximat gion of the lung. Fulle S14/3., Where dusts

according to Regulation (EC) No. 1907/2006



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1		a figure three times the long to	rm ovposuro should bo usod	
_	Titanium dioxide	a figure three times the long-te 13463-67-7 TWA (inhalable		GB EH40
		dust)	i i ing/ilio	OD LITIO
	Further information	fractions of airborne dust which in accordance with the method sampling and gravimetric anal COSHH definition of a substar kind when present at a concer 8-hour TWA of inhalable dust of This means that any dust will be above these levels. Some dus posure to these must comply we contain particles of a wide rang of any particular particle after body response that it elicits, de HSE distinguishes two size fra ble' and 'respirable'., Inhalable material that enters the nose a available for deposition in the to the fraction that penetrates definitions and explanatory ma contain components that have	s, respirable dust and inhalable n will be collected when samplir is described in MDHS14/3 Gene ysis of respirable and inhalable ice hazardous to health includes tration in air equal to or greater or 4 mg.m-3 8-hour TWA of resp be subject to COSHH if people a ts have been assigned specific with the appropriate limit., Most ge of sizes. The behaviour, dep entry into the human respiratory epend on the nature and size of ctions for limit-setting purposes dust approximates to the fraction and mouth during breathing and respiratory tract. Respirable dus to the gas exchange region of the terial are given in MDHS14/3., V their own assigned WEL, all the ere no specific short-term expose	ing is undertaken eral methods for dust, The 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 e relevant limits
_		a figure three times the long-te		
		TWA (Respirat dust)	le 4 mg/m3	GB EH40
	Further information	For the purposes of these limit fractions of airborne dust which in accordance with the method sampling and gravimetric anal COSHH definition of a substar kind when present at a concer 8-hour TWA of inhalable dust of This means that any dust will be above these levels. Some dus posure to these must comply we contain particles of a wide range of any particular particle after of body response that it elicits, de HSE distinguishes two size fra ble' and 'respirable'., Inhalable material that enters the nose a available for deposition in the to the fraction that penetrates definitions and explanatory ma contain components that have	s, respirable dust and inhalable on will be collected when samplin as described in MDHS14/3 Generations ysis of respirable and inhalable once hazardous to health includes that in air equal to or greater or 4 mg.m-3 8-hour TWA of resp be subject to COSHH if people a ts have been assigned specific with the appropriate limit., Most ge of sizes. The behaviour, dep- entry into the human respiratory epend on the nature and size of ctions for limit-setting purposes dust approximates to the fraction and mouth during breathing and respiratory tract. Respirable dus to the gas exchange region of the therial are given in MDHS14/3., V their own assigned WEL, all the per no specific short-term expos-	ing is undertaken eral methods for dust, The is 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- bin of airborne is therefore at approximates the lung. Fuller Where dusts are relevant limits
	Iron(III) Oxide	1309-37-1 TWA (inhalable dust)		GB EH40
F	Further information	/	s, respirable dust and inhalable	dust are those

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		a figure three	times the long TWA (Respir		exposure shoul 4 mg/m3	d be used	GB EH40
	er information		dust)		•		
		fractions of ai in accordance sampling and COSHH defin kind when pre 8-hour TWA of This means th above these I posure to these contain particu body respons HSE distingui ble' and 'respi material that e available for of to the fraction definitions and contain comp should be cor	rborne dust wh gravimetric an ition of a subst esent at a conc of inhalable dus nat any dust wil evels. Some du se must comply les of a wide ra lar particle afte e that it elicits, shes two size f irable'., Inhalab enters the nose deposition in the that penetrate d explanatory r onents that hav nplied with., W	ich wi ods d alysis ance entrat st or 4 Il be s usts h y with ange c er entr dependent fraction ble dus e resp s to the materi ve the here r	espirable dust a ll be collected w escribed in MDH of respirable ar hazardous to he ion in air equal f mg.m-3 8-hour ubject to COSH ave been assign the appropriate of sizes. The bel y into the human of on the nature ns for limit-settin st approximates mouth during br iratory tract. Re al are given in N ir own assigned to specific short exposure should	when sampling HS14/3 Gene and inhalable of ealth includes to or greater f TWA of resp H if people a ned specific V limit., Most in naviour, depor naviour, depor and size of f and size of f to the fractio eathing and i spirable dust e region of the IDHS14/3., V WEL, all the -term expose	g is undertake ral methods fo dust, The dust of any than 10 mg.m irable dust. re exposed VELs and ex- ndustrial dusts system and th the particle. termed 'inhala n of airborne s therefore approximates e lung. Fuller Vhere dusts relevant limits ure limit is liste
Cobal blue s	t aluminate pinel	1345-16-0	TWA		0.1 mg/m3 (Cobalt)		GB EH40
	er information	Substances th	hat can cause o	occup	ational asthma (also known a	as asthmagen
		and respirator responsivene airways have	ry sensitisers) o ss via an immu become hyper	can in inolog -respo	duce a state of s ical, irritant or o onsive, further e may cause res	specific airwa ther mechani xposure to th	y hyper- sm. Once the e substance,

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		who are expo possible to ide responsive. E distinguished people with pi- clude the dise asthmagens of exposure to s vented. When standards of of substances th sure be reduce short-term pe management employees ex occupational lance., Capab are those whi by inhalation'; tact' or - are l sessments of updated from has shown to ing cancer an those which: may cause he or - a substa cific short-term posure should phate., The 'S	sed to a sensitiser v entify in advance the 54 Substances that of from substances whe re-existing airway hy ease themselves. The prespiratory sensiti ubstances that can e this is not possible control to prevent we hat can cause occup ed as low as is rease ak concentrations so is being considered posed or liable to be asthma and there so health professional of causing occup ch: - are assigned to or 'R42/43: May can isted in section C of the evidence for ag time to time, or any be a potential cause d/or heritable genetic - are assigned the re- eritable genetic dam- ince or process lister n exposure limit is list d be used, Carcinog	use sensitisation by inl f HSE publication 'Asth ents implicated in occu other substance which e of occupational asthr ic damage. The identifi isk phrases 'R45: May age'; 'R49: May cause d in Schedule 1 of CO sted, a figure three tim enic applies for cobalt st of WELs has been a	onsive and it is im- ecome hyper- il asthma should be mptoms of asthma in out which do not in- e not classified asonably practicable, thma should be pre- apply adequate hyper-responsive. For IH requires that expo- tivities giving rise to r attention when risk appropriate for all nee which may cause onsultation with an and level of surveil- entified substances ay cause sensitisation halation and skin con- magen? Critical as- ipational asthma' as n the risk assessment na., Capable of caus- ed substances include cause cancer'; 'R46: cancer by inhalation' SHH., Where no spe- es the long-term ex- dichloride and sul-
C.I. Pi 7	gment Green	1328-53-6	TWA (Dusts and mists)	1 mg/m3 (Copper)	GB EH40
			STEL (Dusts and mists)	2 mg/m3 (Copper)	GB EH40
oxide	/droxide	20344-49-4	TWA (Fumes)	5 mg/m3 (Iron)	GB EH40
Furthe	r information	case for expo ticles generate usually after v	sure limits where 'fu ed by chemical reac olatilisation from mo	nclude gases and vapo ime' should normally be stions or condensed fro elted substances. The I reaction such as oxida	e applied to solid par- om the gaseous state, generation of fume is
Furthe	r information	case for expo ticles generate usually after v	sure limits where 'fu ed by chemical reac volatilisation from me	(Iron) nclude gases and vapo ime' should normally bo stions or condensed fro elted substances. The I reaction such as oxida	e applied to solid par- m the gaseous state, generation of fume is

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		breakdown.			
Black	(iron oxide	1317-61-9	TWA (Fumes)	5 mg/m3 (Iron)	GB EH40
Furth	er information	case for expo ticles generat usually after v	sure limits where 'fu ed by chemical reac volatilisation from me	nclude gases and vapou ime' should normally be ctions or condensed from elted substances. The ge I reaction such as oxidat	applied to solid pa the gaseous stat eneration of fume
			STEL (Fumes)	10 mg/m3 (Iron)	GB EH40
Furth	er information	case for expo ticles generat usually after v	sure limits where 'fu ed by chemical read olatilisation from mo	nclude gases and vapou ime' should normally be ctions or condensed from elted substances. The ge I reaction such as oxidat	applied to solid pa the gaseous stat eneration of fume
Yello	w iron oxide	51274-00-1	TWA (Fumes)	5 mg/m3 (Iron)	GB EH40
Furth	er information	case for expo ticles generat usually after v	sure limits where 'fu ed by chemical reac volatilisation from me vanied by a chemica	nclude gases and vapou ime' should normally be stions or condensed from elted substances. The ge I reaction such as oxidat	applied to solid pa the gaseous stat eneration of fume ion or thermal
			STEL (Fumes)	10 mg/m3 (Iron)	GB EH40
Furth	er information	case for expo	sure limits where 'fu	nclude gases and vapou me' should normally be	
		usually after v	olatilisation from me	elted substances. The ge l reaction such as oxidat	the gaseous state eneration of fume
Carbo	on black	usually after v	volatilisation from mo anied by a chemica	elted substances. The ge I reaction such as oxidat	h the gaseous stat eneration of fume ion or thermal GB EH40
	on black	usually after of often accomp breakdown. 1333-86-4	volatilisation from me panied by a chemica TWA STEL	elted substances. The ge l reaction such as oxidat 3.5 mg/m3 7 mg/m3	n the gaseous stat eneration of fume ion or thermal GB EH40 GB EH40
Mica		usually after v often accomp breakdown. 1333-86-4 12001-26-2	volatilisation from me panied by a chemica TWA STEL TWA (Inhalable)	elted substances. The ge I reaction such as oxidat 3.5 mg/m3 7 mg/m3 10 mg/m3	h the gaseous stat eneration of fume ion or thermal GB EH40 GB EH40 GB EH40
Mica	on black er information	usually after v often accomp breakdown. 1333-86-4 12001-26-2 For the purpo fractions of ai in accordance sampling and	volatilisation from me panied by a chemica TWA STEL TWA (Inhalable) sees of these limits, i rborne dust which w e with the methods of gravimetric analysis term exposure limit ould be used TWA (Respira-	elted substances. The ge l reaction such as oxidat 3.5 mg/m3 7 mg/m3	a the gaseous stat eneration of fume ion or thermal GB EH40 GB EH40 GB EH40 able dust are thos mpling is undertak General methods table dust, Where r
Mica Furth		usually after of often accomp breakdown. 1333-86-4 12001-26-2 For the purpor fractions of ai in accordance sampling and specific short exposure sho fractions of ai in accordance sampling and	volatilisation from me panied by a chemica TWA STEL TWA (Inhalable) ses of these limits, i rborne dust which w e with the methods of gravimetric analysis -term exposure limit buld be used TWA (Respira- ble) ses of these limits, i rborne dust which w e with the methods of gravimetric analysis -term exposure limit	elted substances. The ge I reaction such as oxidat 3.5 mg/m3 7 mg/m3 10 mg/m3 respirable dust and inhal ill be collected when sar lescribed in MDHS14/3 (s of respirable and inhal is listed, a figure three ti	able dust are thos able dust are thos able dust are thos able dust are thos able dust, Where the mes the long-term GB EH40 able dust, where the able dust are thos able dust are thos able dust are thos mpling is undertak General methods able dust, Where the main of the thos able dust are thos

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Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction 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 dust)	4 mg/m3	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 la posure to these contain particul body respons. HSE distinguis ble' and 'respi material that e available for d to the fraction definitions and contain compo-	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 h se must comply with es of a wide range of lar particle after entry e that it elicits, depen- shes two size fraction rable'., Inhalable dust enters the nose and leposition in the resp that penetrates to the d explanatory materi- ponents that have the nplied with., Where re- times the long-term	espirable dust and inhalable of ll be collected when sampling escribed in MDHS14/3 Gener of respirable and inhalable of 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 ir of sizes. The behaviour, depo y into the human respiratory so nd on the nature and size of to ns for limit-setting purposes to st approximates to the fraction mouth during breathing and is piratory tract. Respirable dust he gas exchange region of the al are given in MDHS14/3., V ir own assigned WEL, all the no specific short-term exposure exposure should be used	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 s therefore approximates e lung. Fuller Vhere dusts relevant limits ire limit is listed,
Methyltrimethox- ysilane	1185-55-3	TWA	7.5 ppm	DCC OEL

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

Calcium carbonate



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Calcium carbonate treated with stearic acid

Titanium dioxide

Cobalt aluminate blue spinel

Carbon black

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Calcium carbonate	Workers	Inhalation	Long-term systemic effects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	10 mg/m3
	Consumers	Ingestion	Long-term systemic effects	6.1 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	6.1 mg/kg bw/day
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
Black iron oxide	Workers	Inhalation	Long-term systemic effects	10 mg/m3
	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
C. I. Pigment Yellow 93	Workers	Inhalation	Long-term systemic effects	3 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3 mg/m3
Yellow iron oxide	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	10 mg/m3

according to Regulation (EC) No. 1907/2006



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Carbo	on black	Consumers	Inhalation	Long-term systemic effects	0.06 mg/m3
		Workers	Inhalation	Long-term systemic effects	1 mg/m3
Bariu	m sulfate	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
		Workers	Inhalation	Long-term systemic effects	10 mg/m3
		Consumers	Inhalation	Long-term systemic effects	10 mg/m3
		Consumers	Ingestion	Long-term systemic effects	13000 mg/kg bw/day
Methy ysilan	yltrimethox- ie	Workers	Skin contact	Acute systemic ef- fects	0.38 mg/kg bw/day
		Workers	Inhalation	Acute systemic ef- fects	25.6 mg/m3
		Workers	Skin contact	Long-term systemic effects	0.38 mg/kg bw/day
		Workers	Inhalation	Long-term systemic effects	25.6 mg/m3
		Consumers	Skin contact	Acute systemic ef- fects	0.3 mg/kg bw/day
		Consumers	Inhalation	Acute systemic ef- fects	6.25 mg/m3
		Consumers	Ingestion	Long-term systemic effects	0.26 mg/kg bw/day
		Consumers	Skin contact	Long-term systemic effects	0.3 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	6.25 mg/m3
		Consumers	Ingestion	Acute systemic ef- fects	0.26 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Calcium carbonate	Sewage treatment plant	100 mg/l
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
C. I. Pigment Yellow 93	Sewage treatment plant	1 mg/l
	Soil	1 mg/kg
Carbon black	Fresh water	50 mg/l
Barium sulfate	Fresh water	227.8 mg/l
	Sewage treatment plant	50.1 mg/l



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		Soil		707.7 mg/kg
		Fresh water see	Fresh water sediment	
	Methyltrimethoxysilane	Fresh water		>= 1.3 mg/l
		Marine water		>= 0.13 mg/l
		Fresh water see	diment	>= 1.1 mg/kg
		Marine sedime	Marine sediment	
		Soil		>= 0.17 mg/kg
		Sewage treatm	ent plant	> 6.9 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 Remarks	:	For prolonged or repeated contact use protective gloves. Wash hands before breaks and at the end of workday.
Skin and body protection	:	Skin should be washed after contact.
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	:	Particulates type (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	:	none
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	:	70 °C

according to Regulation (EC) No. 1907/2006



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				Method: closed c	up
	Evapor	ation rate	:	Not applicable	
	Flammability (solid, gas)		:	Not classified as	a flammability hazard
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	No data available	
	Relative	e density	:	1.52	
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	No data available	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi [.] Visc	ty osity, dynamic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
9.2 Other information					
	Molecu	lar weight	:	No data available	
	Particle	size	:	No data available	
	Self-igr	ition	:		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.

10.2 Chemical stability

Stable under normal conditions.

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10.3 Poss	sibility of hazardous r	eactions				
Haza	rdous reactions	Use at e compou Can rea Methyl a Hazardo	Vapours may form explosive mixture with air. Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Methyl alcohol is formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.			
10.4 Cond	ditions to avoid					
Cond	itions to avoid	: None kr	iown.			
10.5 Inco	mpatible materials					
Mate	rials to avoid	: Oxidizin	g agents			
10.6 Haza	rdous decomposition	n products				
Therr	mal decomposition	: Formald	lehyde			
Inforr expos Acut Not c	e toxicity lassified based on ava	of : Skin con Ingestior Eye cont	n ract			
	ponents:					
	yltrimethoxysilane:					
Acute	e oral toxicity	Assessm icity	at): 12.3 ml/kg nent: The substance or mixture has no acute oral tox- s: Information taken from reference works and the s.			
Acute	e inhalation toxicity	Exposure Test atm Assessm tion toxic	at): > 42.1 mg/l e time: 6 h losphere: vapour nent: The substance or mixture has no acute inhala- sity s: On basis of test data.			
Acute	e dermal toxicity	Assessm toxicity	abbit): > 9,500 mg/kg nent: The substance or mixture has no acute dermal s: On basis of test data.			



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Skin corrosion/irritation

Not classified based on available information.

Components:

Methyltrimethoxysilane:

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

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Species: Rabbit 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:

Methyltrimethoxysilane:

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type: Buehler Test Species: Guinea pig Result: positive Remarks: On basis of test data.

Germ cell mutagenicity

Not classified based on available information.

Components:

Methyltrimethoxysilane:

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: positive Remarks: On basis of test data.

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

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		Resi	ult: positive	mosome aberration test in vitro sis of test data.
Genotoxicity in vivo		cytog Spec Appl Rest	genetic assa cies: Mouse ication Route ult: negative	• /
Germ sessr		: Anim	nal testing di	d not show any mutagenic effects.
Not c	inogenicity lassified based on availa oductive toxicity		nation.	
Not c	lassified based on availa	able inforn	nation.	
	lassified based on avail: ponents:	able inforn	nation.	
Com		able inforn	nation.	
<u>Com</u> Meth	ponents:	: Test repro Spec Appl Sym	Type: Comb oduction/dev cies: Rat, ma ication Route ptoms: No e	pined repeated dose toxicity study with the relopmental toxicity screening test ale and female e: Ingestion ffects on fertility sis of test data.
<u>Com</u> Meth Effec	ponents: yltrimethoxysilane: ts on fertility ts on foetal develop-	: Test repro Spec Appl Sym Rem : Test repro Spec Appl Sym	Type: Comb oduction/dev cies: Rat, ma ication Route ptoms: No e arks: On bas Type: Comb oduction/dev cies: Rat, ma ication Route ptoms: No e	elopmental toxicity screening test ale and female e: Ingestion ffects on fertility sis of test data. bined repeated dose toxicity study with the relopmental toxicity screening test ale and female

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Exposure routes: inhalation (vapour) Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.



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Exposure routes: Ingestion

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

Repeated dose toxicity

Components:

Methyltrimethoxysilane:

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

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

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

	Methyltrimethoxysilane:		
	Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 110 mg/l Exposure time: 96 h
	Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia sp. (water flea)): > 122 mg/l Exposure time: 48 h
	Toxicity to algae	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 120 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	Toxicity to microorganisms	:	EC50 : > 100 mg/l Method: OECD Test Guideline 209
12.2	2 Persistence and degradabili	ity	
	No data available		

12.3 Bioaccumulative potential

Components:

Methyltrimethoxysilane:

Partition coefficient: n- : log Pow: -2.36

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octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

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.

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

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the m	CH - Restrictions on the arket and use of certain arations and articles (Ar	n dar	igerous substance		:	Not applicable
	CH - Candidate List of S ern for Authorisation (A			ו	:	Not applicable
•	Regulation (EC) No 1005/2009 on substances that de- : Not applicable plete the ozone layer					
	Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable lutants					
ment	Regulation (EC) No 649/2012 of the European Parlia- : Not applicable ment and the Council concerning the export and import of dangerous chemicals					
	so III: Directive 2012/18 r-accident hazards invo				ient	and of the Council on the control of
The c	components of this pr	oduc	t are reported in	the fo	ollo	wing inventories:
REAC	СН	:	ents are currently Please refer to se chases from non-	v pre/r ection ∙EU D	egi: 1 fo ow	Corning EU legal entities, all ingredi- stered or exempt under REACH. or recommended uses. For pur- Corning legal entities with the inten- ase contact your DC representa-
TSCA	A	:				a this product are either listed on the compliance with a TSCA Inventory
AICS		:	All ingredients lis	ted or	exe	empt.
IECS	с	:	All ingredients lis	ted or	exe	empt.
ENCS	S/ISHL	:	Consult your loca	l Dow	Cc	prning office.
KECI		:	All ingredients lis	ted, e	xen	npt or notified.
PICC	S	:	All ingredients lis	ted or	exe	empt.
DSL		:		and a	re c	n this product comply with the CEPA on or exempt from listing on the Ca- ces List (DSL).

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.



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SECTION 16: Other information

Full text of H-Statements							
H225	:	Highly flammable liquid and vapour.					
H317	:	May cause an allergic skin reaction.					
Full text of other abbreviations							
Flam. Liq.	:	Flammable liquids					
Skin Sens.	:	Skin sensitisation					
DCC OEL	:	Dow Corning Guide					
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits					
DCC OEL / TWA	:	Time weighted average					
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)					
GB EH40 / STEL	:	Short-term exposure 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: 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/

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

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