## DOW CORNING(R) SE 9186 CLEAR



Version 2.3	Revision Date: 2017/09/29	SD3 941	S Number: 806-00011	Date of last issue: 2017/03/14 Date of first issue: 2014/12/11
1. PRO	DUCT AND COMPANY IDE	ENT	IFICATION	
Pro	duct name	:	DOW CORNING	(R) SE 9186 CLEAR
Pro	duct code	:	000000000025	1941
Ма	nufacturer or supplier's d	etai	ls	
Cor	mpany name of supplier	:	Dow Corning Tor	ay Co., Ltd.
Ado	dress	:	100-0004, 1-5-1	Otemachi, Chiyoda-ku, Tokyo, Japan
Tel	ephone	:	03-3287-8300 (C	ustomer Service)
Em	ergency telephone number	:	0436-21-3101	
Ree	commended use of the ch	emi	ical and restriction	ons on use
Red	commended use	:	Coatings Adhesive, binding	g agents

#### 2. HAZARDS IDENTIFICATION

GHS Classification	
Flammable liquids :	Category 4
Skin sensitisation :	Category 1
GHS label elements	
Hazard pictograms :	
Signal word :	Warning
Hazard statements :	H227 Combustible liquid. H317 May cause an allergic skin reaction.
Precautionary statements :	Prevention:
	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces.</li> <li>No smoking.</li> <li>P261 Avoid breathing mist or vapours.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> </ul>
	Response:

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		P302 + P352 P333 + P313 vice/ attention P362 + P364 reuse.	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical ad- n. Take off contaminated clothing and wash it before
		Storage:	
		P403 + P235	Store in a well-ventilated place. Keep cool.
		Disposal:	
		P501 Dispos disposal plan	e of contents/ container to an approved waste it.
Othe	r hazards which do not	t result in classific	cation
Impo	rtant symptoms and out-	: Vapours may	form explosive mixture with air.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture

Chemical nature	:	Silicone
		Sealant

#### Hazardous components

lines of the emergency as-

sumed

Chemical name	CAS-No.	Concentration (%	ENCS No.
		w/w)	
Hexamethyldisilazane reaction with Silica	68909-20-6	>= 10 - < 20	
Diisopropoxy di(ethoxyacetoacetyl) titanate	27858-32-8	>= 1 - < 10	2-2139
Methyltrimethoxysilane	1185-55-3	>= 1 - < 10	2-2052
Propan-2-ol	67-63-0	>= 0.1 - < 1	2-207

#### 4. 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.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

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	In case	of eye contact	:	Flush eyes with ware of the set medical attent	ater as a precaution. tion if irritation develops and persists.
	lf swallo	owed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.	
	Most im and effe delayed	portant symptoms ects, both acute and l	:	May cause an alle	rgic skin reaction.
	Protecti	ion 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.	
	Notes to	o physician	:	Treat symptomation	cally and supportively.
5. F	IREFIGH	ITING MEASURES			
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	oam O2)
	Unsuita media	ble extinguishing	:	High volume wate	r jet
	Specific fighting	hazards during fire-	<ul> <li>Do not use a solid water stream as it may scatter a fire.</li> <li>Flash back possible over considerable distance.</li> <li>Vapours may form explosive mixtures with air.</li> <li>Exposure to combustion products may be a hazard</li> </ul>		water stream as it may scatter and spread le over considerable distance. a explosive mixtures with air. Justion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Metal oxides Carbon oxides Silicon oxides Formaldehyde Nitrogen oxides (N	IOx)
	Specific ods	extinguishing meth-	:	Use extinguishing cumstances and the Use water spray to Remove undamage so. Evacuate area.	measures that are appropriate to local cir- ne surrounding environment. cool unopened containers. ged containers from fire area if it is safe to do
	Special for firefi	protective equipment ghters	:	In the event of fire Use personal prot	, wear self-contained breathing apparatus. ective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Remove all sources of ignition.

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tive e genc	quipment and emer- / procedures		Use personal protective equipment. Follow safe handling advice and personal protective equip- ment recommendations.				
Envir	onmental precautions	:	<ul> <li>Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.</li> </ul>				
Meth	ods and materials for inment and cleaning up	:	Non-sparking tools Soak up with inert Suppress (knock of spray jet. For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1 certain local or na	s should be used. absorbent material. down) gases/vapours/mists with a water ovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. og materials from spill with suitable absor- egulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.			

#### 7. HANDLING AND STORAGE

Handling		
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Avoid inhalation of vapour or mist. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Keep away from water. Protect from moisture. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	:	Oxidizing agents

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			Water	
Hygien	e measures	:	Ensure that eye flu located close to the When using do no Wash contaminate These precautions elevated temperate quire added preca For further information oils in consumer a guidance docume als in consumer are by the silicone ind Dow Corning custo	ushing systems and safety showers are the working place. It eat, drink or smoke. Ed clothing before re-use. Is are for room temperature handling. Use at ture or aerosol/spray applications may re- nutions. Ation regarding the use of silicones / organic terosol applications, please refer to the int regarding the use of these type of materi- erosol applications that has been developed ustry (www.SEHSC.com) or contact the omer service group.
Storag	e			
Conditi	ons for safe storage	:	Keep in properly la Keep tightly closed Keep in a cool, we Store in accordand Keep away from h	abelled containers. d. ell-ventilated place. ce with the particular national regulations. leat and sources of ignition.
Materia	als to avoid	:	Do not store with t Oxidizing solids Oxidizing liquids	the following product types:
Packag	jing material	:	Unsuitable materia	al: None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible	Basis
Methyltrimethoxysilane	1185-55-3	TWA	7.5 ppm	DCC OEL
Propan-2-ol	67-63-0	ACL	200 ppm	JP OEL ISHL
		OEL-C	400 ppm 980 mg/m3	JP OEL JSOH
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propan-2-ol	67-63-0	ACL	200 ppm	JP OEL ISHL



ersion Revision Date: SD 3 2017/09/29 941		SDS Number: 941806-00011		Date of last issue: 2017/03/14 Date of first issue: 2014/12/11						
					0	EL-C	400 ppm 980 mg/m	13	JP JS	OEL OH
					T\	NA	200 ppm		AC	GIH
					S	ΓEL	400 ppm		AC	GIH
Metha	anol		67-5	6-1	0	EL-M	200 ppm		JP	OEL
							260 mg/m	า3	JS	ОН
			Furt repr	her informa oductive to	atio xici	n: Group 2: S ty in humans	Substances s, Skin abso	presume	d to	cause
					A	CL	200 ppm		JP	OEL ISHL
					T\	NA	200 ppm		AC	GIH
					S	TEL	250 ppm		AC	GIH
Biolo	gical occupational	expos	ure li	mits				-		
Comp	oonents	CAS-N	NO.	Target su stance	b-	Biological specimen	Sam- pling time	Permissil concentra tion	ble a-	Basis
Propa	an-2-ol	67-63-0		Acetone		Urine	End of shift at end of work- week	40 mg/l		ACGIH BEI
Perso	onal protective equ	ipment	10) Ens Min	sure adequ imize work	ay i ate cpla	ventilation, e ce exposure	especially in concentrat	n confined ions.		as.
Kesp	natory protection		ven that	tilation is p exposure:	y p prov s ar	ided or expo e within reco	osure asses	sment der exposure	mon guid	strates lelines.
Fil	ter type	:	Sel	f-contained	d br	eathing appa	aratus			
Hand	protection									
Ma	aterial	:	Che	emical-resi	star	nt gloves				
Re	emarks	:	Cho on t star dete app che glov whi han	bose glove the concen- nce and sp ermined fo lications, v micals of t ve manufac ch may im ds before	s to trat ecil r the ve r he a ctur pac brea	protect hand ion and quar fic to place o e product. Cl ecommend o aforemention er. Take not t the selection aks and at th	ds against of ntity of the l f work. Brea hange glove clarifying th ned protecti e that the p on of hand p ne end of wo	chemicals hazardous akthrough es often! F e resistant ve gloves roduct is f protection. orkday.	dep sub time or s ce to with lamr Wa	ending  e is not pecial o the nable, sh
Eye p	protection	:	We Saf	ar the follo ety glasses	win s	g personal p	rotective ed	quipment:		
Skin a	and body protection	:	Sel	ect approp	riat	e protective	clothing bas	sed on che	emic	al

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		resistance data potential. Wear the follow Flame retardar sessment dem pheres or flash Skin contact m clothing (glove	a and an assessment of the local exposure wing personal protective equipment: nt antistatic protective clothing, unless as- ionstrates that the risk of explosive atmos- n fires is low just be avoided by using impervious protective s, aprons, boots, etc).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous liquid
Colour	:	Colorless to pale yellow
Odour	:	alcohol-like
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> 100 °C
Flash point	:	89 °C Method: Seta closed cup 110 °C Method: Cleveland open cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Self-ignition	:	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1.03

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	Solubilit Wate	ty(ies) er solubility	:	No data available	9
	Partitior octanol/	n coefficient: n- /water	:	No data available	
	Auto-igr	nition temperature	:	No data available	•
	Decom	position temperature	:	No data available	)
	Viscosit Visc	y osity, dynamic	:	650 Poise	
	Explosiv	ve properties	:	Not explosive	
	Oxidizin	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Molecul	ar weight	:	No data available	)
	Particle	size	:	Not applicable	

#### 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Combustible liquid. Vapours may form explosive mixture with air. Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed upon con- tact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	:	Exposure to moisture Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents Water
Hazardous decomposition p Contact with water or humid air	rod :	<b>ucts</b> Propan-2-ol Methanol
Thermal decomposition	:	Formaldehyde

#### 11. TOXICOLOGICAL INFORMATION



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	Informa exposu	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact			
	Acute t Not clas	<b>oxicity</b> ssified based on availa	ble	information.			
	<u>Compo</u>	nents:					
	Hexamethyldisilazane reaction with Silica:						
	Acute o	ral toxicity	:	LD50 (Rat): > 5,00 Assessment: The icity Remarks: Based o	00 mg/kg substance or mixture has no acute oral tox- on data from similar materials		
	Diisopr	opoxy di(ethoxyacet	oac	etyl) titanate:			
	Acute o	ral toxicity	:	LD50 (Rat): 23,02	0 mg/kg		
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 173 Exposure time: 6 Test atmosphere: Remarks: Based of	s mg/l h vapour on data from similar materials		
	Acute d	ermal toxicity	:	LD50 (Rabbit): 12 Remarks: Based o	,870 mg/kg on data from similar materials		
	Methvlf	trimethoxysilane:					
	Acute o	ral toxicity	:	LD50 (Rat): 12.3 r Assessment: The icity Remarks: Informa literature.	ml/kg substance or mixture has no acute oral tox- tion taken from reference works and the		
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 42.7 Exposure time: 6 Test atmosphere: Assessment: The tion toxicity Remarks: On basi	1 mg/l h vapour substance or mixture has no acute inhala- is of test data.		
	Acute d	ermal toxicity	:	LD50 (Rabbit): > 9 Assessment: The toxicity Remarks: On basi	9,500 mg/kg substance or mixture has no acute dermal is of test data.		
	Propan	-2-ol:					
	Acute o	ral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg		
	Acute ir	nhalation toxicity	:	LC50 (Rat): 72.6 r Exposure time: 4 l	ng/l h		

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Test atmosphere: vapour
Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Skin corrosion/irritation Not classified based on available information.
Assessment: Repeated exposure may cause skin dryness or cracking.
<b>Diisopropoxy di(ethoxyacetoacetyl) titanate:</b> Species: Rabbit Result: No skin irritation
Methyltrimethoxysilane: Species: Rabbit Result: No skin irritation Remarks: On basis of test data.
<b>Propan-2-ol:</b> Species: Rabbit Result: No skin irritation
Serious eye damage/eye irritation
Not classified based on available information.
Components:
Hexamethyldisilazane reaction with Silica: Species: Rabbit Result: No eye irritation Remarks: Based on data from similar materials
<b>Diisopropoxy di(ethoxyacetoacetyl) titanate:</b> Species: Rabbit Result: Irritation to eyes, reversing within 21 days
Methyltrimethoxysilane: Species: Rabbit Result: No eye irritation Remarks: On basis of test data.
Propan-2-ol: Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

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#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

#### Diisopropoxy di(ethoxyacetoacetyl) titanate:

Exposure routes: Skin contact Species: Guinea pig Result: negative

#### 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.

#### Propan-2-ol:

Test Type: Buehler Test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### Hexamethyldisilazane reaction with Silica:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES)
		Result: negative
		Remarks: Based on data from similar materials

#### Diisopropoxy di(ethoxyacetoacetyl) titanate:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES)
		Result: negative

#### 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)

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Genotoxicity in vivo		Result: posi Remarks: O Test Type: O Result: posi Remarks: O : Test Type: I cytogenetic Species: Mo Application Result: nega Result: nega	tive In basis of test data. Chromosome aberration test in vitro tive In basis of test data. Mammalian erythrocyte micronucleus test (in vivo assay) Duse Route: Ingestion ative
Germ cell mutagenicity - Assessment		: Animal testi	ng did not show any mutagenic effects.
Propa	n-2-ol:		
Genot	oxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative
Genot	oxicity in vivo	: Test Type: I cytogenetic Species: Mo Application Result: nega	Mammalian erythrocyte micronucleus test (in vivo assay) buse Route: Intraperitoneal injection ative
Coroli		Result: nega	ative

#### Carcinogenicity

Not classified based on available information.

#### Components:

#### Propan-2-ol:

Species: Rat Application Route: inhalation (vapour) Exposure time: 104 weeks Method: OECD Test Guideline 451 Result: negative

#### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

#### Diisopropoxy di(ethoxyacetoacetyl) titanate:

:	Test Type: Embryo-foetal development
	Species: Rabbit
	Application Route: Ingestion
	Result: negative
	Remarks: Based on data from similar materials
	:

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	Methyl	rimethoxysilane:			
	Effects	on fertility	:	Test Type: Combin reproduction/deve Species: Rat, male Application Route: Symptoms: No eff Remarks: On basi	ned repeated dose toxicity study with the lopmental toxicity screening test a and female Ingestion ects on fertility s of test data.
Effects on foetal develop- ment		: Test Type: Combined repeated dose toxicity study with reproduction/developmental toxicity screening test Species: Rat, male and female Application Route: Ingestion Symptoms: No effects on foetal development Remarks: On basis of test data.			
	Reproductive toxicity - As- sessment		:	No evidence of ad or on developmen	verse effects on sexual function and fertility, t, based on animal experiments.
	Propan	-2-ol:			
	Effects	on fertility	:	Test Type: Two-ge Species: Rat Application Route: Result: negative	eneration reproduction toxicity study
	Effects ment	on foetal develop-	:	Test Type: Embryo Species: Rat Application Route: Result: negative	p-foetal development

#### STOT - single exposure

Not classified based on available information.

#### Components:

Diisopropoxy di(ethoxyacetoacetyl) titanate:

Assessment: May cause drowsiness or dizziness.

#### Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

#### 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.

Exposure routes: Ingestion

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

#### Repeated dose toxicity

#### **Components:**

#### Diisopropoxy di(ethoxyacetoacetyl) titanate:

Species: Rat NOAEL: 86.7 mg/l Application Route: inhalation (vapour) Exposure time: 13 Weeks Remarks: Based on data from similar materials

#### Methyltrimethoxysilane:

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

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

#### Propan-2-ol:

Species: Rat NOAEL: 5000 ppm Application Route: inhalation (vapour) Exposure time: 104 Weeks Method: OECD Test Guideline 413

#### Aspiration toxicity

Not classified based on available information.

#### Product:

No aspiration toxicity classification

#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

**Components:** 

#### Diisopropoxy di(ethoxyacetoacetyl) titanate:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 11,130 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l Remarks: Based on data from similar materials



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М	ethylt	rimethoxysilane:			
То	oxicity	to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 110 mg/l i h
To ac	oxicity quatic	to daphnia and other invertebrates	:	EC50 (Daphnia sr Exposure time: 48	o. (water flea)): > 122 mg/l s h
Тс	oxicity	to algae	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	chneriella subcapitata (green algae)): > 120 : h est Guideline 201
Тс	oxicity	to microorganisms	:	EC50: > 100 mg/l Method: OECD Te	est Guideline 209
D	ronan	-2-ol·			
To	oxicity	to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 10,000 mg/l i h
To ac	oxicity quatic	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10,000 mg/l h
То	oxicity	to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1,050 mg/l i h
Pe	ersiste	ence and degradabili	ity		
<u>C</u>	ompo	nents:			
Di	iisopr	opoxy di(ethoxyacet	oac	etyl) titanate:	
Bi	iodegr	adability	:	Result: Readily bi Biodegradation: 6 Exposure time: 28 Method: OECD To Remarks: Based of	odegradable. 6 % ed est Guideline 301D on data from similar materials
Р	ropan	-2-ol:			
Bi	iodegr	adability	:	Result: rapidly de	gradable
Bi	ioaccu	umulative potential			
<u>C</u>	ompo	nents:			
Di	iisopr	opoxy di(ethoxyacet	oac	etyl) titanate:	
Pa	artitior ctanol/	o coefficient: n- water	:	log Pow: 0.05	
М	ethylt	rimethoxysilane:			
Pa oc	artition ctanol/	o coefficient: n- water	:	log Pow: -2.36	

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<b>Prop</b> Parti octa	<b>pan-2-ol:</b> tion coefficient: n- nol/water	:	log Pow: 0.05	
<b>Mob</b> No d	<b>ility in soil</b> ata available			
Haza Not a	ardous to the ozone la applicable	ayer		
<b>Othe</b> No d	er adverse effects ata available			
13. DISP	OSAL CONSIDERATIO	ONS		
Disp	osal methods			
Was	te from residues	:	Dispose of in acc	cordance with local regulations.
Cont	aminated packaging	:	Empty container dling site for recy Empty container	s should be taken to an approved waste han- /cling or disposal. s retain residue and can be dangerous. e cut weld braze solder drill grind or ex-

pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

#### **14. TRANSPORT INFORMATION**

#### International Regulations

#### UNRTDG

Not regulated as a dangerous good

## IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code** Not regulated as a dangerous good

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

Refer to section 15 for specific national regulation.

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#### **15. REGULATORY INFORMATION**

#### **Related Regulations**

#### **Fire Service Law**

Group 4, Type 3 petroleums, Water insoluble liquid, (2000 litre)

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#### **Chemical Substance Control Law**

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

#### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### **Substances Prevented From Impairment of Health**

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

#### Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Number	Concentration (%)
Silica	312	>=10 - <20
Propyl alcohol	494	>=0.1 - <1

#### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Number
Silica	312

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

#### Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning Not applicable

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	Enforc Substa	ement Order of the Ind Inces)	dus	trial Safety and H	ealth Law - Attached table 1 (Dangerous
	Deicon	ous and Deleterious (	Sub	stances Control	<b>OW</b>
	Not app	blicable	Sub	Stances Control	Law
	Act on vironm	Confirmation, etc. of ent and Promotion of blicable	Rel Im	ease Amounts of provements to the	Specific Chemical Substances in the En- e Management Thereof
	High P	ressure Gas Safety Ad	ct		
	Not app	blicable			
	Explos Not app	ive Control Law			
	Vessel	Safety Law			
	Not reg	ulated as a dangerous	goc	od	
	Aviatio	on Law			
	Not reg	ulated as a dangerous	goc	od	
	Marine Bulk tra	Pollution and Sea Dis	sasi :	ter Prevention etc Not applicable for	<b>: Law</b> product as supplied.
	Pack tr	ansportation	:	Not classified as r	narine pollutant
	Waste Industri	Disposal and Public C	Clea	insing Law	
	The co	mponents of this proc	duc	t are reported in t	he following inventories:
	NZIoC		:	All ingredients list	ed or exempt.
	TSCA		:	All chemical subs TSCA Inventory of exemption.	tances in this product are either listed on the r are in compliance with a TSCA Inventory
	IECSC		:	All ingredients list	ed or exempt.
	KECI		:	All ingredients list	ed, exempt or notified.
	PICCS		:	All ingredients list	ed or exempt.
	DSL		:	This product conta on the Canadian I this product into C limits please cons	ains one or more substances which are not Domestic Substances List (DSL). Import of Canada has volume limitations. For volume ult Dow Corning Regulatory Compliance.
	REACH	1	:	For purchases fro ents are currently Please refer to se chases from non- tion to export into	m Dow Corning EU legal entities, all ingredi- pre/registered or exempt under REACH. ction 1 for recommended uses. For pur- EU Dow Corning legal entities with the inten- EEA please contact your DC representa-

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	tive/local office	ı.
AICS	: One or more in	ngredients are not listed or exempt.
ENCS/ISHL	: All components inventory listing	s are listed on ENCS/ISHL or exempted from g.
TCSI	: All ingredients	listed or exempt.

#### **16. OTHER INFORMATION**

#### Further information

Sources of key data used to : compile the Safety Data	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
Sheet		cy, 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.

Date format

: yyyy/mm/dd

#### Full text of other abbreviations

mendation of Occupational Exposure Limits	ACGIH ACGIH BEI DCC OEL JP OEL ISHL JP OEL JSOH	<ul> <li>USA. ACGIH Threshold Limit Values (TLV)</li> <li>ACGIH - Biological Exposure Indices (BEI)</li> <li>Dow Corning Guide</li> <li>Japan. Administrative Control Levels</li> <li>Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits</li> </ul>
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ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
DCC OEL / TWA	:	Time weighted average
JP OEL ISHL / ACL	:	Administrative Control level
JP OEL JSOH / OEL-M	:	Occupational Exposure Limit-Mean
JP OEL JSOH / OEL-C	:	Occupational Exposure Limit-Ceiling

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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;

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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; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

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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