

Section 1. Identification of the material and the supplier

Product: **DOW CORNING(R) 580 Glass Metal and Masonry Sealant Tanslucent**

Product Code: DC580TR

Product Use: Adhesive, binding agents

Restriction of Use: Refer to Section 15

Manufacturer: Dow Corning Australia Pty Ltd
Darling Park, Tower 2
Level 20, 201 Sussex Street
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Dow Corning date of issue: 23.05.2015 Ver 1.3(original SDS)

Glasscorp date of issue: 8 January 2018

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code and Group Standard: Surface Coatings and Colourants (subsidiary) - HSR002670

Pictogram:


Irritant

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1

Prevention Code	Prevention Statement
P103	Read label before use.
P261	Avoid breathing fumes, vapours or spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective clothing.

Response Code	Response Statement
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P363	Wash contaminated clothing before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Chemical Name	CAS-No.	Concentration (%)
Methyltri(ethylmethylketoxime)silane	22984-54-9	< 10
Silica Treated With Methyltrichlorosilane	Not Assigned	< 10
Silicon dioxide	7631-86-9	< 10
Amorphous fumed silica	112945-52-5	< 10
3-Aminopropyltriethoxysilane	919-30-2	< 10
Ethyl methyl ketoxime	96-29-7	< 10
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	< 10

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	Not applicable.
Inhalation:	Not applicable.
Skin:	May cause an allergic skin reaction.
Eye:	Not applicable.

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists. Treat symptomatically and supportively.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	Carbon oxides Silicon oxides Nitrogen oxides (NOx)

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	Chlorine compounds
Suitable Extinguishing media	Water spray , alcohol-resistant foam , carbon dioxide (CO2) or dry chemical
Precautions for firefighters and special protective clothing	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Use extinguishing measures that are appropriate to local circumstances 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.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.

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.

Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for safe handling:

- Read label before use.
- Avoid breathing fumes, vapours or spray.
- Use only with adequate ventilation.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing.
- Keep away from water or moisture.
- Use personal protective equipment as required.

Precautions for safe Storage:

- Store away from incompatible materials (strong oxidizing agents).
- Keep in properly labelled containers.

Section 8 Exposure Controls / Personal Protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silica Treated With Methyltrichlorosilane	Not Assigned	TWA (Respirable dust)	2 mg/m3	AU OEL
Silicon dioxide	7631-86-9	TWA (Respirable dust)	2 mg/m3	AU OEL
Amorphous fumed silica	112945-52-5	TWA	10 mg/m3	AU OEL
	Further information: This value is for inhalable dust containing no asbestos and < 1% crystalline silica			
Ethyl methyl ketoxime	96-29-7	TWA	10 ppm	DCC OEL
	Further information: Skin sensitisation			
Dimethylbis[(1-oxoodecyl)oxy]stannane	68928-76-7	TWA	0.1 mg/m3 (Tin)	AU OEL
	Further information: Some compounds in these groups are classified as carcinogenic or as sensitisers. Check individual classification details on the safety data sheet for information on classification., Skin absorption			

		STEL	0.2 mg/m ³ (Tin)	AU OEL
	Further information: Some compounds in these groups are classified as carcinogenic or as sensitizers. Check individual classification details on the safety data sheet for information on classification., Skin absorption			
		TWA	0.1 mg/m ³ (Tin)	ACGIH
		STEL	0.2 mg/m ³ (Tin)	ACGIH

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl methyl ketoxime	96-29-7	TWA	10 ppm	DCC OEL
	Further information: Skin sensitisation			
Ethanol	64-17-5	TWA	1,000 ppm 1,880 mg/m ³	AU OEL
		STEL	1,000 ppm	ACGIH

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal Protection Equipment



Eyes	Wear the following personal protective equipment: Safety goggles
Hands	Impervious gloves. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance 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	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	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, ammonia/amines and organic vapour type.

Section 9 Physical and Chemical Properties

Appearance	Paste
Colour	White, translucent
Odour	Slight
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not classified as a flammability hazard
Upper and Lower Explosive Limits	Not available

Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	1.03
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Use at elevated temperatures may form highly hazardous compounds.
Conditions to Avoid	Exposure to moisture.
Incompatible Materials	Oxidizing agents, Water
Hazardous Decomposition Products	On contact with water or humid air: Ethyl methyl ketoxime, Ethanol Thermal Decomposition: Formaldehyde.

Section 11 Toxicological Information

Acute Toxicity

Chemical	Toxicity	Details:	Method	Result
Silicon dioxide:	Acute:Oral	LD50 (Rat) :>3300mg/kg		No acute oral toxicity
	Acute:Dermal	LD50 (Rat):>5000mg/kg		No acute dermal toxicity
	Acute: Inh	LD50 (Rat): >2.08mg/l	Exposure Time: 4h Test Atmosphere: dust/mist	No inhalation toxicity
	Skin sensitisation	Exposure Route: Skin contact Species: Guinea Pig	Not Specified	Does not cause skin sensitisation
	Germ Cell Mutagenicity	Genotoxicity in vitro: Genotoxicity in vivo:	Ingestion	Negative Negative
Amorphous fumed silica:	Acute:Oral	(Rat) : LD50>20 000mg/kg		No acute oral toxicity
Methyltri(ethylmethylketoxime)silane	Acute:Oral	LD50 (Rat) :>2520 mg/kg		No acute oral toxicity
	Skin: Rabbit			No skin irritation
	Eye: Rabbit			Irritation to eyes, reversing within 7 days
	Skin sensitisation	Exposure Route: Skin contact Species: Guinea Pig	Maximisation Test	Probability or evidence of skin sensitisation in humans
	Germ Cell Mutagenicity		In vitro mammalian cytogenetic test	Negative
	Reproductively	Species: Rat Male and Female Application Route: Ingestion Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test	OECD Test Guideline 422	No effects on fertility
	STOT – Single STOT - Repeated	Exposure Route: Ingestion Target Organ: Blood		Shown to produce significant health effects in animals

				at Concentrations of >10 to 100 mg/kg bw.
	Repeated Dose Toxicity	Species: Rat Target Organ: Blood Appication Route: Ingestion		Based on test data
Silica Treated With Methyltrichlorosilane	Acute:Oral	LD50 (Rat) :>5000mg/kg		No acute oral toxicity
	Skin: Rabbit			No skin irritant
	Eye: Rabbit			No eye irritation
	Germ Cell Mutagenicity		Bacterial reverse mutation assay (AMES)	Negative
3-Aminopropyltriethoxysilane:	Acute:Oral	LD50 (Rat) :>1.57ml/kg		
	Acute dermal	LD50 (Rabbit): 4.29 ml/kg		
	Skin Irritation/Corrosive	Rabbit		Corrosive after 3 minutes to 1 hour of exposure
	Eye Irritation/Corrosive	Rabbit		Irreversible effects on the eye.
	Skin sensitisation	Species: Guinea pig Species: Guinea pig	Test Type: Buehler Test Test Type: Maximisation Test (GPMT)	Causes sensitisation. No known sensitising effect.
	Germ Cell Mutagenicity	Genotoxicity in vitro: Genotoxicity in vivo:	Bacterial reverse mutation assay (AMES) Chromosome aberration test in vitro	Negative Negative
	Carcinogenicity	Species: Mouse Application Route: Skin contact		Negative.
	Reproductively	Species: Rat Male and Female Application Route: Ingestion		No effects on fertility
	STOT - Repeated	Exposure Route: Ingestion Exposure routes: inhalation (dust/mist/fume) Exposure routes: Skin contact		No significant health effects observed in animals at concentrations of 100 mg/kg bw or less. No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less. No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.
	Repeated Dose Toxicity	Species: Rat Appication Route: inhalation ingestion		Based on similar materials.
Ethyl methyl ketoxime:	Acute Oral	LD50(Rat)=2326mg/kg	Method: OECD Test Guideline 401	
	Acute inhalation	LC50 (Rat): > 4.83 mg/l	Method: OECD	No acute

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		Exposure time: 4 h Test atmosphere: vapour	Test Guideline 403	inhalation toxicity
	Acute dermal	LD50 (Rabbit): > 1,000 - 1,800 mg/kg		
	Skin Irritation/Corrosive	Rabbit		No skin irritation
	Eye Irritation/Corrosive	Rabbit	OECD Test Guideline 405	Irreversible effects on the eye.
	Skin sensitisation	Exposure Route: Skin contact Species: Guinea Pig	Test Type: Buehler Test Method: OECD Test Guideline 406	Positive Probability or evidence of skin sensitisation in humans
	Germ Cell Mutagenicity	Genotoxicity in vitro: Genotoxicity in vivo:	DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro) Mutagenicity (in vivo mammalian bone marrow cytogenetic test, chromosomal analysis (Rat) Ingestion	Negative Negative
	Carcinogenicity	Species: Rat Application Route: Inhalation (Vapour) Exp Time: 26 months		Positive
	Reproductively – Effects on fertility	Species: Rat Application Route: Ingestion	Two generation reproduction toxicity study	Negative
	STOT - Single			May cause drowsiness or dizziness.
	STOT - Repeated	Exposure routes: Ingestion Target Organs: Blood Exposure routes: inhalation (vapour) Target Organs: Blood		Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less. Shown to produce significant health effects in animals at concentrations of 0.2 mg/l/6h/d or less.
	Repeated Dose Toxicity	Species: Rat NOAEL: 4 mg/l LOAEL: 20 mg/kg Application Route: Ingestion Exposure time: 28 d		
Dimethylbis[(1-oxoneodecyl)oxy]stannane:	Acute Oral	LD50(Rat): 894mg/kg	Method: OECD Test Guideline 401	
	Acute Dermal	LD50 (Rat): > 2,000 mg/kg	Method: OECD Test Guideline 402	No acute dermal toxicity
	Skin	Species: Rabbit	OECD Test Guideline 404	No skin irritation
	Eye	Species: Rabbit		No eye irritation
	Germ Cell Mutagenicity	Genotoxicity in vitro:	Bacterial reverse mutation assay (AMES)	Negative
	Reproductively			Some evidence of adverse effects on development, based on animal experiments.
	STOT - Repeated	Exposure routes: Ingestion		Shown to produce

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		Target Organs: Immune system, Central nervous system		significant health effects in animals at concentrations of 10 mg/kg bw or less.
	Repeated Dose Toxicity	Species: Rat NOAEL: < 1.6 mg/kg Application Route: Ingestion Exposure time: 90 d		Based on data from similar materials

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Product:

Remarks: During use of the material, small amounts of methylethylketoxime (MEKO) will be re-released. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver tumour rates.

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Components:

	3-Aminopropyltriethoxysilane:	Ethyl methyl ketoxime:	Methyltri (ethylmethylketoxime) silane
Toxicity to fish	LC50 (Danio rerio (zebra fish)): > 934 mg/l Exp time: 96 h	LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exp time: 96 h Method: OECD Test Guideline 203	LC50 (OnCorhynchus mykiss (rainbow trout)): > 120 mg/l Exp time: 96 h Method: OECD Test Guideline 203
Toxicity to algae	ErC50 (Scenedesmus subspicatus): > 1,000 mg/l Exp time: 72 h	EC50 (Scenedesmus capricornutum (fresh water algae)): 11.8 mg/l Exp time: 72 h Method: OECD Test Guideline 201 NOEC (Scenedesmus capricornutum (fresh water	ErC50 (Selenastrum Capricornutum (green algae)): 94 mg/l Exp time: 72 h Method: OECD Test Guideline 201

		algae)): 2.56 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
		NOEC (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 21 d Method: OECD Test Guideline 211	
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia sp.): 331 mg/l aquatic Exp time: 48 h	EC50 (Daphnia magna (Water flea)): 201 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	EC50 (Daphnia magna (Water flea)): > 120 mg/l Exp time: 48 h Method: OECD Test Guideline 202
Toxicity to daphnia and other aquatic invertebrates (Chronic Toxicity)			This product has no known Eco toxicological effects.
Toxicity to bacteria		EC50 (Pseudomonas putida): 281 mg/l Exposure time: 17 h	
Persistence and degradability		Biodegradability: Result: Not readily biodegradable. Biodegradation: 27 % Exposure time: 21 d Method: OECD Test Guideline 301C	Result: Not readily biodegradable. Biodegradation: 14.5 % Exposure time: 21 d Method: OECD Test Guideline 302B
Bioaccumulative potential	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): < 100 Partition coefficient: n octanol/water: Log Pow: -2.85	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 0.5 - 0.6 Method: OECD Test Guideline 305 Partition coefficient: n octanol/water: Log Pow: 0.63	Partition Coefficient: Log Pow: 11:2 Octanol/water
Stability In water	Degradation half life: 8.5 h pH: 7		

Section 13. Disposal Considerations

Disposal Method:

Triple rinse and dispose of according to Local Regulations.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This substance is not classified as a dangerous good according to NZS5433: 2012

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

HSNO Classification 6.5B

EPA Approval Code: Surface Coatings and Colourants(subsidiary) - HSR002670

HSNO Controls:

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Trigger quantities for this substance:

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	1000kg (6.5B)
Secondary Containment	1000kg (6.5B)
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact Glasscorp if further information is required.

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