

DOWSIL 781 Acetoxy Silicone Clear #459-0210 (AUS) RS Components

Chemwatch: 5349-93

Version No: **4.1.6.7**

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

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

Product Identifier

Product name	DOWSIL 781 Acetoxy Silicone Clear #459-0210 (AUS)
Chemical Name	Not Applicable
Synonyms	Product Code: 459-0210
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses Adhesive, binding agents.

Details of the supplier of the safety data sheet

Registered company name	RS Components
Address	25 Pavesi Street Smithfield NSW 2164 Australia
Telephone	+1 300 656 636
Fax	+1 300 656 696
Website	www.au.rs-online.com
Email	Not Available

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+61 2 9186 1132
Other emergency telephone numbers	+61 1800 951 288

Once connected and if the message is not in your prefered language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

ChemWatch Hazard Ratings

	Min Max	1
Flammability	1	
Toxicity	0	0 = Minimum
Body Contact	0	1 = Low
Reactivity	1	2 = Moderate
Chronic	2	3 = High 4 = Extreme

Poisons Schedule	Not Applicable
Classification ^[1]	Not Applicable

Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Chemwatch Hazard Alert Code: 2

Issue Date: 16/06/2021 Print Date: 16/06/2021 L.GHS.AUS.EN

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
540-97-6	0.36-0.44	dodecamethylcyclohexasiloxane
541-02-6	0.21-0.31	decamethylcyclopentasiloxane
556-67-2	0.21-0.29	octamethylcyclotetrasiloxane
68928-76-7	0.01-0.02	dimethyltin dineodecanoate
Legend:	 Classified by Chemwatch; 2. Classifical Classification drawn from C&L * EU IOEL 	tion drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. _Vs available

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	
Advice for firefighters		
	Alert Fire Brigade and tell them location and nature of hazard.	
	Wear breathing apparatus plus protective gloves.	
	Prevent, by any means available, spillage from entering drains or water courses.	
Fire Fighting	Use water delivered as a fine spray to control fire and cool adjacent area.	
File Fighting	DO NOT approach containers suspected to be hot.	
	Cool fire exposed containers with water spray from a protected location.	

- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) silicon dioxide (SiO2) metal oxides other pyrolysis products typical of burning organic material. May emit poisonous fumes.
HAZCHEM	Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up. Place spilled material in clean, dry, sealed container. Flush spill area with water.
Major Spills	 Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or waterways. If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Avoid strong acids, bases. Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Occupational Exposure Limits (OEL)

INGREDIENT DATA								
Source	Ingredient	Material name	TWA	STEL	Peak	Notes		
Australia Exposure Standards	dimethyltin dineodecanoate	Tin, organic compounds (as Sn)	0.1 mg/m3	0.2 mg/m3	Not Available	 (g) Some compounds in these groups are classified carcinogenic or as sensitisers. Check individual classification details on the safety data sheet for info on classification. 		
Emergency Limits								
Ingredient	TEEL-1		TEEL-2	TEEL-2			TEEL-3	
dodecamethylcyclohexasiloxane	150 mg/m3	1,700 mg/m3				9,900 mg/m3		
octamethylcyclotetrasiloxane	30 ppm	68 ppm				130 ppm		
Ingredient	Original IDLH Revised IDLH							
dodecamethylcyclohexasiloxane	Not Available		Not Available					
decamethylcyclopentasiloxane	Not Available			Not Ava	Not Available			
octamethylcyclotetrasiloxane	Not Available				Not Ava	Not Available		

Occupational Exposure Banding

25 mg/m3

dimethyltin dineodecanoate

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
decamethylcyclopentasiloxane	E	≤ 0.1 ppm	
octamethylcyclotetrasiloxane	E ≤ 0.1 ppm		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the		

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

Not Available

MATERIAL DATA

Exposure controls

Exposure controis			
	Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job activi Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilatio ventilation system must match the particular process and ch Employers may need to use multiple types of controls to pre- General exhaust is adequate under normal operating conditii essential to obtain adequate protection. Provide adequate ve workplace possess varying "escape" velocities which, in turn remove the contaminant.	independent of worker interactions to provide this high level ty or process is done to reduce the risk. I selected hazard "physically" away from the worker and ven n can remove or dilute an air contaminant if designed proper emical or contaminant in use. vent employee overexposure. ons. If risk of overexposure exists, wear SAA approved resp entilation in warehouse or closed storage areas. Air contamin	of protection. tilation that strategically dy. The design of a irator. Correct fit is nants generated in the
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (i	n still air)	0.25-0.5 m/s (50-100 f/min)
	aerosols, fumes from pouring operations, intermittent contr drift, plating acid fumes, pickling (released at low velocity in	0.5-1 m/s (100-200 f/min.)	
Appropriate engineering controls	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)	
	grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	nerated dusts (released at high initial velocity into zone of	2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood - local control only	
	Simple theory shows that air velocity falls rapidly with distant with the square of distance from the extraction point (in simp accordingly, after reference to distance from the contaminatii of 1-2 m/s (200-400 f/min.) for extraction of solvents generat considerations, producing performance deficits within the ext factors of 10 or more when extraction extractions are installed of	le cases). Therefore the air speed at the extraction point sh ng source. The air velocity at the extraction fan, for example ed in a tank 2 meters distant from the extraction point. Othe traction apparatus, make it essential that theoretical air veloc	ould be adjusted, e, should be a minimum r mechanical

factors of 10 or more when extraction systems are installed or used.

Personal protection



Eye and face protection	 Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Colourless paste with acetic acid odour.		
Physical state	Non Slump Paste	Relative density (Water = 1)	1.02
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>100 (CC)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7

Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.			
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	Although the material is not thought to be an irritant (as clas characterised by tearing or conjunctival redness (as with wir	ssified by EC Directives), direct contact with the eye may produce transient discomfondburn).		
Chronic	biochemical systems. Exposure to the material may cause concerns for human fer the absence of toxic effects, or evidence of impaired fertility secondary non-specific consequence of other toxic effects. Exposure to the material may cause concerns for humans o in appropriate animal studies provide some suspicion of dev	pational exposure may produce cumulative health effects involving organs or intility, on the basis that similar materials provide some evidence of impaired fertility i or occurring at around the same dose levels as other toxic effects, but which are not a powing to possible developmental toxic effects, on the basis that similar materials test velopmental toxicity in the absence of signs of marked maternal toxicity, or at around of a secondary non-specific consequence of other toxic effects.		
	тохісіту	IRRITATION		
DOWSIL 781 Acetoxy Silicone		INNIATION		
Clear #459-0210 (AUS)	Not Available	Not Available		
Clear #459-0210 (AUS)		Not Available		
Ciear #459-0210 (AUS)				
	TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1]	IRRITATION		
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dodecamethylcyclohexasiloxane	Toxicity dermal (rat) LD50: >2000 mg/kg ^[1] Oral(Rat) LD50; >2000 mg/kg ^[1] Dermal (rabbit) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50; 8.67 mg/l4h ^[1] Oral(Rat) LD50; >5000 mg/kg ^[1] Inhalation(Rat) LC50; 8.67 mg/l4h ^[1] Oral(Rat) LD50; >5000 mg/kg ^[1] Inhalation(Rat) LD50; 754.3 mg/kg ^[2] Inhalation(Rat) LC50; 36 mg/l4h ^[1]	IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye (rabbit): 500 mg/24h - mild Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 500 mg/24h - mild Skin: adverse effect observed (not irritating) ^[1] Skin: adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Eye (rabbit): 500 mg/24h - mild Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 500 mg/24h - mild		
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dodecamethylcyclohexasiloxane	TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral(Rat) LD50; >2000 mg/kg ^[1] Dermal (rabbit) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50; 8.67 mg/l4h ^[1] Oral(Rat) LD50; >5000 mg/kg ^[1] Inhalation(Rat) LC50; 8.67 mg/l4h ^[1] Oral(Rat) LD50; >5000 mg/kg ^[1] Inhalation(Rat) LC50; 36.67 mg/l4h ^[1] Oral(Rat) LD50; 754.3 mg/kg ^[2] Inhalation(Rat) LC50; 36 mg/l4h ^[1] Oral(Rat) LD50; 1540 mg/kg ^[2] Inhalation(Rat) LC50; 36 mg/l4h ^[1] Oral(Rat) LD50; 1540 mg/kg ^[2]	IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye (rabbit): 500 mg/24h - mild Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 500 mg/24h - mild Skin: adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 500 mg/24h - mild Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 500 mg/24h - mild Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 500 mg/24h - mild Skin: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (irritating) ^[1]		

Liver changes, spleen changes recorded. Carcinogenicity: Animal testing showed no carcinogenic effects. Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on test data Genotoxicity in vivo: Test Type: DECAMETHYLCYCLOPENTASILOXANE Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Rat Application Route: inhalation (vapor) Result: negative Remarks: Based on test data Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effect.

		effects on fertility. Remarks: Based on test Species: Rat Application Route: Inhalation toxicity - Assessment : No evidence of adv experiments Routes of exposure: Assessr or less. Results from a 2 year repeated va effects (uterine endometrial tumours) in fe	t data Effects on fetal development :) Symptoms: No effects on fetal development : verse effects on sexual function and f nent: No significant health effects obs pour inhalation exposure study to rat male animals. This finding occurred a	es: Rat Application Route: Inhalation Symptoms: No fest Type: Two-generation reproduction toxicity study lopment. Remarks: Based on test data Reproductive ertility, or on development, based on animal served in animals at concentrations of 200 mg/kg bw s of decamethylcyclopentasiloxane (D5) indicate at the highest exposure dose (160 ppm) only. Studies levant to humans
to date have not demonstrated if this effect occurs through a pathway that is relevant to humans Does not cause skin sensitization Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result Remarks: Based on test data Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative Remarks: Based on test data Test Type: DNA dam data Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on test data Test Type: DNA dam unscheduled DNA synthesis in mammalian cells (in vitro) Result: negative Remarks: Based on test data Genotoxic Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: inhala negative Remarks: Based on test data Test Type: Two-generation reproduction toxicity study Species: Rat Ap Ingestion Result: negative Remarks: Based on test data Effects on fertility: Test Type: Two-generation reproduction toxicity study Species: Rat Ap Ingestion Route: inhalation (vapor) Symptoms: Effects on fertility. Remarks: Based on test data Effects on fetal d Type: Prenatal development. Remarks: Based on atest data Reproductive toxicity - Assessment : Some evidence of on sexual function and fertility, based on animal experiments. STOT-single exposure May cause damage to organs nervous system Routes of exposure: Skin contact Assessment: No significant health effects observed in animals a 200 mg/kg bw or less. Results from a 2 year repeated vapor inhalation exposure study to rats of octamethylcyclote indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exp ppm) only. Studies to date have not demonstrated if these effects co				verse mutation assay (AMES) Result: negative genetic test) Result: negative Remarks: Based on test Based on test data Test Type: In vitro sister ed on test data Test Type: DNA damage and repair, narks: Based on test data Genotoxicity in vivo : Test ecies: Rat Application Route: inhalation (vapor) Result: germ cell) (in vivo) Species: Rat Application Route: γ - Assessment : Animal testing did not show any oxicity study Species: Rat, male and female tased on test data Effects on fetal development : Test lication Route: inhalation (vapor) Symptoms: No y - Assessment : Some evidence of adverse effects osure May cause damage to organs (Eyes, Central nealth effects observed in animals at concentrations of e study to rats of octamethylcyclotetrasiloxane (D4) s finding occurred at the highest exposure dose (700 n pathways that are relevant to humans. Repeated
DODECAMETHYLCYCLOHEXAS & DIMETHYLTIN DINEODEC		No significant acute toxicological data ide	ntified in literature search.	
& DIMETHYLTIN DINEODECANOATE Routes of exposure: Ingestion Assessme less. Routes of exposure: inhalation (vap mg/l/6h/d or less. DECAMETHYLCYCLOPENTASILOXANE The material may be irritating to the eye, may produce conjunctivitis. The material may cause skin irritation after form of dermatitis is often characterised be			r) Assessment: No significant health vith prolonged contact causing inflam r prolonged or repeated exposure and	ved in animals at concentrations of 100 mg/kg bw or effects observed in animals at concentrations of 1 mation. Repeated or prolonged exposure to irritants d may produce a contact dermatitis (nonallergic). This ng epidermis. Histologically there may be intercellular rmis.
Asthma-like symptoms may continue for non-allergenic condition known as reaction of highly irritating compound. Key criteria non-atopic individual, with abrupt onset irritant. A reversible airflow pattern, on s challenge testing and the lack of minima diagnosis of RADS. RADS (or asthma) f concentration of and duration of exposure			e airways dysfunction syndrome (RAI for the diagnosis of RADS include the persistent asthma-like symptoms with rometry, with the presence of modera ymphocytic inflammation, without eos lowing an irritating inhalation is an inf to the irritating substance. Industrial rations of irritating substance (often p	o the material ceases. This may be due to a DS) which can occur following exposure to high levels absence of preceding respiratory disease, in a hin minutes to hours of a documented exposure to the te to severe bronchial hyperreactivity on methacholine sinophilia, have also been included in the criteria for requent disorder with rates related to the bronchitis, on the other hand, is a disorder that occurs articulate in nature) and is completely reversible after production.
Acute Toxicity	×		Carcinogenicity	×
Skin Irritation/Corrosion	×		Reproductivity	×
Serious Eye Damage/Irritation	×		STOT - Single Exposure	×
Respiratory or Skin sensitisation	×		STOT - Repeated Exposure	×
Mutagenicity	×		Aspiration Hazard	x

Legend:

X − Data either not available or does not fill the criteria for classification
→ Data available to make classification

SECTION 12 Ecological information

oxicity					
	Endpoint	Test Duration (hr)	Species	Value	Source
DOWSIL 781 Acetoxy Silicone Clear #459-0210 (AUS)	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
dodecamethylcyclohexasiloxane	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
decamethylcyclopentasiloxane	NOEC(ECx)	1080h	Fish	>=0.017mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
octamethylcyclotetrasiloxane	EC0(ECx)	24h	Crustacea	3.1mg/l	1
	LC50	96h	Fish	200mg/l	1

	Endpoint	Test Duration (hr)	Species	Value	Source
Parada dela Para La consta	NOEC(ECx)	72h	Algae or other aquatic plants	1.2mg/l	2
dimethyltin dineodecanoate	EC50	72h	Algae or other aquatic plants	2mg/l	2
	EC50	48h	Crustacea	39mg/l	2
Legend:	Extracted from 1. I	UCLID Toxicity Data 2. Europe ECHA Registered S	ubstances - Ecotoxicological Information - Aquatic	Toxicity 3. El	PIWIN Suite

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dodecamethylcyclohexasiloxane	HIGH	HIGH
decamethylcyclopentasiloxane	HIGH	HIGH
octamethylcyclotetrasiloxane	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
dodecamethylcyclohexasiloxane	HIGH (LogKOW = 6.3286)
decamethylcyclopentasiloxane	HIGH (LogKOW = 5.2)
octamethylcyclotetrasiloxane	HIGH (BCF = 12400)

Mobility in soil

Ingredient	Mobility
dodecamethylcyclohexasiloxane	LOW (KOC = 1174000)
decamethylcyclopentasiloxane	LOW (KOC = 145200)
octamethylcyclotetrasiloxane	LOW (KOC = 17960)

SECTION 13 Disposal considerations

Waste treatment methods Product / Packaging disposal • Recycle wherever possible or consult manufacturer for recycling options. • Consult State Land Waste Authority for disposal. • Bury or incinerate residue at an approved site. • Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 Transport information

Labels Required

 Marine Pollutant
 NO

 HAZCHEM
 Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
dodecamethylcyclohexasiloxane	Not Available
decamethylcyclopentasiloxane	Not Available
octamethylcyclotetrasiloxane	Not Available
dimethyltin dineodecanoate	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
dodecamethylcyclohexasiloxane	Not Available
decamethylcyclopentasiloxane	Not Available
octamethylcyclotetrasiloxane	Not Available
dimethyltin dineodecanoate	Not Available

Safety, health and environmental regulations / legislation specific for the sub-	stance or mixture
dodecamethylcyclohexasiloxane is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	Chemical Footprint Project - Chemicals of High Concern List
decamethylcyclopentasiloxane is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	Chemical Footprint Project - Chemicals of High Concern List
octamethylcyclotetrasiloxane is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Chemical Footprint Project - Chemicals of High Concern List
Australian Inventory of Industrial Chemicals (AIIC)	
dimethyltin dineodecanoate is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Chemical Footprint Project - Chemicals of High Concern List
Australian Inventory of Industrial Chemicals (AIIC)	

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (dodecamethylcyclohexasiloxane; decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane; dimethyltin dineodecanoate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (dimethyltin dineodecanoate)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (dodecamethylcyclohexasiloxane; dimethyltin dineodecanoate)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	16/06/2021
Initial Date	18/04/2019

SDS Version Summary

Version	Date of Update	Sections Updated
3.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
3.1.2.1	26/04/2021	Regulation Change
3.1.3.1	03/05/2021	Regulation Change
3.1.4.1	06/05/2021	Regulation Change
3.1.5.1	10/05/2021	Regulation Change
3.1.5.2	30/05/2021	Template Change
3.1.5.3	04/06/2021	Template Change
3.1.5.4	05/06/2021	Template Change
3.1.6.4	07/06/2021	Regulation Change
3.1.6.5	09/06/2021	Template Change
3.1.6.6	11/06/2021	Template Change
3.1.6.7	15/06/2021	Template Change
4.1.6.7	16/06/2021	Appearance, Chronic Health, Classification, Fire Fighter (fire/explosion hazard), Ingredients, Storage (storage incompatibility)

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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