

## DOWSIL 799 EU Glaze and Go Sealant Clear #740-1362 (NZ) RS Components

Chemwatch: 5471-36	Issue Date: 11/06/2021
Version No: 2.1.3.7	Print Date: 16/06/2021
Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017	L.GHS.NZL.EN

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

#### **Product Identifier**

Product name	DOWSIL 799 EU Glaze and Go Sealant Clear #740-1362 (NZ)
Chemical Name	Not Applicable
Synonyms	Product Code: 740-1362
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.
Nelevani luentineu uses	Autiesive, binding agen

#### Details of the supplier of the safety data sheet

Registered company name	RS Components
Address	PO Box 12-127 Penrose, Auckland New Zealand
Telephone	+64 27 4747122
Fax	+64 9 579 1700
Website	www.nz.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	+64 800 700 112

#### 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

Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1, Eye Irritation Category 2, Specific target organ toxicity - repeated exposure Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	6.3A, 6.4A, 6.5B (contact), 6.9B

#### Label elements

Hazard pictogram(s)	

Signal word Warning

 Hazard statement(s)

 H315
 Causes skin irritation.

 H317
 May cause an allergic skin reaction.

 H319
 Causes serious eye irritation.

Chemwatch Hazard Alert Code: 2

H373 May cause damage to organs through prolonged or repeated exposure.

, , ,	
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

#### Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

**P501** Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
58190-57-1	3.1-4.5	ethyltris(acetoxime)silane
919-30-2	0.71-0.99	3-aminopropyltriethoxysilane
68928-76-7	0.16-0.24	dimethyltin dineodecanoate
Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

#### **SECTION 4 First aid measures**

Description of first aid measur Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs: <ul> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

#### 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

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOX)</li> <li>silicon dioxide (SiO2)</li> <li>metal oxides</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit corrosive fumes.</li> </ul>

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

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

## **SECTION 7 Handling and storage**

## Precautions for safe handling

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

#### Conditions for safe storage, including any incompatibilities

	Metal can or drum
Suitable container	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**

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

INGREDIENT DATA								
Source	Ingredient	Material name	•	TWA	STE	L	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	dimethyltin dineodecanoate Tin metal: Organic compounds, as Sn		0.1 mg/m3	0.2 r	ng/m3	Not Available	skin-Skin absorption	
Emergency Limits								
Ingredient	TEEL-1		TEEL-2			TEEL	-3	
3-aminopropyltriethoxysilane	1.9 mg/m3		21 mg/m3		350 mg/m3			
Ingredient	Original IDLH			Revised IDLI	н			
ethyltris(acetoxime)silane	Not Available		Not Available					
3-aminopropyltriethoxysilane	Not Available			Not Available				
dimethyltin dineodecanoate	25 mg/m3		Not Available					
Occupational Exposure Banding	3							
Ingredient	Occupational Exposure Ban	d Rating		Occupation	al Exp	osure B	and Limit	
ethyltris(acetoxime)silane	E			≤ 0.1 ppm				
3-aminopropyltriethoxysilane	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 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.

### MATERIAL DATA

Exposure controls

	Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be i The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev Local exhaust ventilation usually required. If risk of overexpose protection. Supplied-air type respirator may be required in sp An approved self contained breathing apparatus (SCBA) may Provide adequate ventilation in warehouse or closed storage velocities which, in turn, determine the "capture velocities" of	ndependent of worker interactions to provide this high level y or process is done to reduce the risk. selected hazard "physically" away from the worker and ven can remove or dilute an air contaminant if designed proper mical or contaminant in use. ent employee overexposure. sure exists, wear approved respirator. Correct fit is essential ecial circumstances. Correct fit is essential to ensure adequ b e required in some situations. area. Air contaminants generated in the workplace possess	of protection. tilation that strategically ly. The design of a to obtain adequate ate protection.
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (ir	n still air).	0.25-0.5 m/s (50-100 f/min.)
Appropriate engineering	aerosols, fumes from pouring operations, intermittent conta drift, plating acid fumes, pickling (released at low velocity in		0.5-1 m/s (100-200 f/min.)
controls	direct spray, spray painting in shallow booths, drum filling, o generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 f/min.)
	grinding, abrasive blasting, tumbling, high speed wheel ger 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 distance with the square of distance from the extraction point (in simpl accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min) for extraction of solvents generated is producing performance deficits within the extraction apparatu more when extraction systems are installed or used.	e cases). Therefore the air speed at the extraction point sho g source. The air velocity at the extraction fan, for example n a tank 2 meters distant from the extraction point. Other me	ould be adjusted, should be a minimum of echanical considerations,



Personal protection

Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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]</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

#### **Respiratory protection**

Type AK-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	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AK-AUS / Class 1 P2	-
up to 100 x ES	-	AK-2 P2	AK-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	White translucent paste with characteristic odour.		
Physical state	Non Slump Paste	Relative density (Water = 1)	1.03
Odour	Characteristic	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)	>110 (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
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Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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	Although ingestion is not thought to produce harmful effects (as classified of the individual, following ingestion, especially where pre-existing organ toxic substances are generally based on doses producing mortality rathe tract discomfort may produce nausea and vomiting. In an occupational se cause for concern.	(e.g liver, kidney) damage is evident. Present definitions of harmful or r than those producing morbidity (disease, ill-health). Gastrointestinal		
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis condition 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	Evidence exists, or practical experience predicts, that the material may c produce significant ocular lesions which are present twenty-four hours or Repeated or prolonged eye contact may cause inflammation characterise (conjunctivitis); temporary impairment of vision and/or other transient eye	more after instillation into the eye(s) of experimental animals. ed by temporary redness (similar to windburn) of the conjunctiva		
Chronic	Repeated or long-term occupational exposure is likely to produce cumula Practical experience shows that skin contact with the material is capable individuals, and/or of producing a positive response in experimental anim Substances that can cause occupational asthma (also known as asthmat hyper-responsiveness via an immunological, irritant or other mechanism. the substance, sometimes even to tiny quantities, may cause respiratory asthma. Not all workers who are exposed to a sensitiser will become hype become hyper-responsive. Substances than can cuase occupational asthma should be distinguished with pre-existing air-way hyper-responsiveness. The latter substances ar Wherever it is reasonably practicable, exposure to substances that can be possible the primary aim is to apply adequate standards of control to pre- Activities giving rise to short-term peak concentrations should be be exposed should be appropriate for all employees exposed or liable to be expo- should be appropriate consultation with an occupational health profession There is some evidence to provide a presumption that human exposure to availance is appropriate of the provide a presumption that human exposure to availance is appropriate of the provide a presumption that human exposure to availance is appropriate of the provide a presumption that human exposure to availance is appropriate of the provide appropriate for the presumption that human exposure to availance is appropriate of the provide appropriate for the presumption that human exposure the availance is appropriate of the provide appropriate for the presumption that human exposure the presumption the	either of inducing a sensitisation reaction in a substantial number of hals. gens and respiratory sensitisers) can induce a state of specific airway Once the airways have become hyper-responsive, further exposure to symptoms. These symptoms can range in severity from a runny nose to ter-responsive and it is impossible to identify in advance who are likely to d from substances which may trigger the symptoms of asthma in people e not classified as asthmagens or respiratory sensitisers cuase occupational asthma should be prevented. Where this is not vent workers from becoming hyper-responsive. rticular attention when risk management is being considered. Health used to a substance which may cause occupational asthma and there nal over the degree of risk and level of surveillance.		
	levels as other toxic effects but which is not a secondary non-specific or There is some evidence that human exposure to the material may result where effects have been observed in the absence of marked maternal to are not secondary non-specific consequences of the other toxic effects.	in developmental toxicity. This evidence is based on animal studies		
	levels as other toxic effects but which is not a secondary non-specific cor There is some evidence that human exposure to the material may result where effects have been observed in the absence of marked maternal to are not secondary non-specific consequences of the other toxic effects.	nsequence of other toxic effects. in developmental toxicity. This evidence is based on animal studies xicity, or at around the same dose levels as other toxic effects but which		
DOWSIL 799 EU Glaze and Go	levels as other toxic effects but which is not a secondary non-specific cor There is some evidence that human exposure to the material may result where effects have been observed in the absence of marked maternal to are not secondary non-specific consequences of the other toxic effects. <b>TOXICITY</b>	nsequence of other toxic effects. in developmental toxicity. This evidence is based on animal studies		
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Sealant Clear #740-1362 (NZ)	Ievels as other toxic effects but which is not a secondary non-specific correst of the material may result where effects have been observed in the absence of marked maternal to are not secondary non-specific consequences of the other toxic effects.         TOXICITY         Dermal (None) LD50: >2000 mg/kg*[2]         Oral (None) LD50: >5000 mg/kg*[2]         TOXICITY         dermal (rat) LD50: >2000 mg/kg[1]         Oral(Rat) LD50; >2000 mg/kg[1]         Dermal (rabbit) LD50; >2000 mg/kg[1]	IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION		
Sealant Clear #740-1362 (NZ) ethyltris(acetoxime)silane	Ievels as other toxic effects but which is not a secondary non-specific correst of the material may result where effects have been observed in the absence of marked maternal to are not secondary non-specific consequences of the other toxic effects.         TOXICITY         Dermal (None) LD50: >2000 mg/kg* <sup>[2]</sup> Oral (None) LD50: >5000 mg/kg* <sup>[2]</sup> TOXICITY         dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup> TOXICITY	IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION Eye (rabbit): 0.75 mg/24h-SEVERE		

dimethyltin dineodecanoate	Oral(Rat) LD50; 892 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
		Skin: adverse effect observed (irritating) <sup>[1]</sup>
Legend:	1. Value obtained from Europe ECHA Registered Substa specified data extracted from RTECS - Register of Toxic	ances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise Effect of chemical Substances
ETHYLTRIS(ACETOXIME)SIL/	ANE sensitising agents. These included two diastereon LLNA,alpha,beta-epoxy oximes. Allergic Contact Dermatitis—Formation, Structura Ann-Therese Karlberg et al: Chem. Res. Toxicol. 2 http://ttp.cdc.gov/pub/Documents/OEL/06.%20Dol	tson/References/Karlberg_2008.pdf
3-AMINOPROPYLTRIETHOXYSIL	<ul> <li>The toxicity of the material should be evaluated as Contact allergies quickly manifest themselves as contact eczema involves a cell-mediated (T lymph urticaria, involve antibody-mediated immune react sensitisation potential: the distribution of the subsis substance which is widely distributed can be a moindividuals come into contact. From a clinical poin than 1% of the persons tested.</li> <li>For alkoxysilanes:         <ul> <li>Low molecular weight alkoxysilanes (including alk aerosols causing irreversible lung damage at low Alkoxysilane groups that rapidly hydrolyse when in Although there appears to be signs of irritation unbe readily classified as a skin irritant.</li> <li>The trimethoxysilane group of chemicals have preexperienced severe inflammation of the cornea . E the eyes.</li> <li>Methoxysilanes are generally reported to possess to be carcinogenic. In the US, alkoxysilanes with a Based on available information on methoxysilanes functional methoxysilanes have previously been it skin exposure with workers involved in the manufaction of available information on the cornea, contact is unlikely, given the severity of response, While it is difficult to generalise about the full rang characterised by those used in the manufacture of majority of these materials may cause adverse he including bronchoconstriction or bronchial ast</li> <li>Systemic symptoms include headache, nause itching, erythema (redening of the skin), urtic are related to the pharmacological action of a Typically, there are four routes of possible or poter <b>Inhalation</b></li> <li>Minalation of vapors may, depending upon the phy exposure, result in moderate to severe irritation of Products with higher vapour pressures have a gree exposure.</li> <li>Higher concentrations of certain amines can product breathing, and chest pains.</li> <li>Chronic exposure via inhalation may cause headad damage. Also, repeated and/or prolonged exposu amines have bee</li></ul></li></ul>	s the toxicity of acetoxime. * REACh Dossier ins as a group and may not be specific to this product. contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of hocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact tions. The significance of the contact allergen is not simply determined by its tance and the opportunities for contact with it are equally important. A weakly sensitisin ore important allergen than one with stronger sensitising potential with which few it of view, substances are noteworthy if they produce an allergic test reaction in more dyl orthosilicates) are a known concern for lung toxicity, due to inhalation of vapours or doses. n contact with water, result in metabolites that may only cause mild skin irritation. der different test conditions, based on the available information, the alkoxysilanes canner eviously been associated with occupational eye irritation in exposed workers who Based on the collective information, these substances are likely to be severe irritants to a higher reactivity and toxicity compared to ethoxysilanes; some methoxysilanes appead alkoxy groups greater than C2 are classified as moderate concern. s, the possibility that this family causes skin sensitisation cannot be ruled out. Amine- mplicated as a cause of occupational contact dermatitis, often as a result of repeated acture or use of the resins containing the chemical during fibreglass production. eye causing pronounced inflammation. Repeated or prolonged exposure to irritants mather prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic kin redness (erythema) thickening of the epidermis. of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged k urepeated exposures may produce severe ulceration. y to repeated exposures may produce severe ulceration. set optonential health effects posed by exposure to the many different amine compound of polyurethane and polyisocyanurate foams,

		<ul> <li>Exposed persons may experience excessive tearing, burning, conjunctivitis, and corneal swelling.</li> <li>The corneal swelling may manifest itself in visual disturbances such as blured or "foggy" vision with a blue tint ("blue haze") a sometimes a halo phenomenon around lights. These symptoms are transient and usually disappear when exposure ceases. Some individuals may experience this effect even when exposed to concentrations below doses that ordinarily cause respirat <b>Ingestion</b>:</li> <li>The oral toxicity of amine catalysts varies from moderately to very toxic.</li> <li>Some amines can cause severe irritation, ulceration, or burns of the mouth, throat, esophagus, and gastrointestinal tract. Material aspirated (due to vomiting) can damage the bronchial tubes and the lungs.</li> <li>Affected persons also may experience pain in the chest or abdomen, nausea, bleeding of the throat and the gastrointestinal diarrhea, dizziness, drowsiness, thirst, circulatory collapse, coma, and even death.</li> <li>Polyurethane Amine Catalysts: Guidelines for Safe Handling and Disposal; Technical Bulletin June 2000</li> <li>Alliance for Polyurethanes Industry</li> <li>For 3-aminopropyltriethoxsilane (APTES):</li> <li>Acute toxicity: 3-Aminopropyltriethoxysilane (APTES) has been tested for acute toxicity by the oral, dermal, and inhalation exposure. Acute oral LD50s in rats range from 1570 to 3650 mg/kg bw. The dermal LD50 is 4.29 g/kg bw and the 4-hour inh of the hydrolysate is greater than 7.35 mg/L. Six hours of exposure to substantially saturated vapor of APTES did not kill any or female rats (LC50 &gt; 6 hours). The kidney is a target organ for toxicity for oral and dermal exposures.</li> <li>APTES is severely irritating to the skin and eyes. In a Buehler study in guinea pig, 7/30 animals showed a skin sensitisation The hydrolysis products of this material do not elicit a sensitiaation response in a guinea pig maximization test.</li> <li>Repeat dose toxicity: Repeated inhalation exposure of rats to 147 mg/m3 of APTES h</li></ul>		<ul> <li>gy" vision with a blue tint ("blue haze") and ually disappear when exposure ceases.</li> <li>welow doses that ordinarily cause respiratory irritation.</li> <li>sophagus, and gastrointestinal tract.</li> <li>ng of the throat and the gastrointestinal tract,</li> <li>chnical Bulletin June 2000</li> <li>cicity by the oral, dermal, and inhalation routes of D50 is 4.29 g/kg bw and the 4-hour inhalation LC50 aturated vapor of APTES did not kill any of the 5 male dermal exposures.</li> <li>v/30 animals showed a skin sensitisation response.</li> <li>nea pig</li> <li>S hydrolysate respirable aerosol for four weeks stemic toxicity was observed in rabbits after 9 126 mg/kg bw/day of APTES; the site of contact _) of APTES in a 90-day oral (gavage) study with rats</li> <li>ussays, <i>in vitro</i> V79 hamster lung cell and Chinese 4GPRT gene mutation assays, and an <i>in vivo</i> mouse dence of genotoxic potential.</li> <li>ay) in a 90 day oral gavage study in rats, no effects ans. The NOAEL for developmental effects has been</li> </ul>
DIMETHYLTIN DINEODECANO	DATE	No significant acute toxicological data identified	l in literature search.	
3-AMINOPROPYLTRIETHOXYSILANE & DIMETHYLTIN DINEODECANOATE		Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.		
Acute Toxicity	×		Carcinogenicity	×
Skin Irritation/Corrosion	~		Reproductivity	×
Serious Eye Damage/Irritation	~		STOT - Single Exposure	×
Respiratory or Skin sensitisation	~		STOT - Repeated Exposure	✓

## **SECTION 12 Ecological information**

Mutagenicity

×

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
DOWSIL 799 EU Glaze and Go Sealant Clear #740-1362 (NZ)	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	72h	Algae or other aquatic plants	50mg/l	2
ethyltris(acetoxime)silane	EC50	72h	Algae or other aquatic plants	122.46mg/l	2
	LC50	96h	Fish	558mg/l	2
	EC50	48h	Crustacea	544.34mg/l	2
3-aminopropyltriethoxysilane	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	672h	Fish	<0.53	7
	NOEC(ECx)	72h	Algae or other aquatic plants	1.3mg/l	2
	EC50	72h	Algae or other aquatic plants	603mg/l	2
	LC50	96h	Fish	>934mg/l	2
	EC50	48h	Crustacea	331mg/l	2

Aspiration Hazard

Legend:

×

 $\pmb{\times}$  – Data either not available or does not fill the criteria for classification  $\pmb{\vee}$  – Data available to make classification

dimethyltin dineodecanoate	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	72h	Algae or other aquatic plants	1.2mg/l	2
	EC50	72h	Algae or other aquatic plants	2mg/l	2
	EC50	48h	Crustacea	39mg/l	2
Legend:	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
3-aminopropyltriethoxysilane	HIGH	HIGH
Bioaccumulative potential		
Ingredient	Bioaccumulation	
3-aminopropyltriethoxysilane	LOW (BCF = 5.4)	
Mobility in soil		
Ingredient	Mobility	

# 3-aminopropyltriethoxysilane LOW (KOC = 12150)

## **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>
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Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

#### **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (UN): 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
ethyltris(acetoxime)silane	Not Available
3-aminopropyltriethoxysilane	Not Available
dimethyltin dineodecanoate	Not Available

#### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
ethyltris(acetoxime)silane	Not Available
3-aminopropyltriethoxysilane	Not Available
dimethyltin dineodecanoate	Not Available

#### **SECTION 15 Regulatory information**

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard		
HSR002670	Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020		
Please refer to Section 8 of the SD	S for any applicable tolerable exposure limit or Section	12 for environmental exposure limit.	
ethyltris(acetoxime)silane is fou	nd on the following regulatory lists		
Not Applicable			
3-aminopropyltriethoxysilane is	found on the following regulatory lists		
New Zealand Approved Hazardous Substances with controls		New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals			
		New Zealand Inventory of Chemicals (NZIoC)	
dimethyltin dineodecanoate is fo	ound on the following regulatory lists		
Chemical Footprint Project - Chemicals of High Concern List		New Zealand Workplace Exposure Standards (WES)	
New Zealand Inventory of Chemica	als (NZIoC)		
Hazardous Substance Locatio	n		
Subject to the Health and Safety a	t Work (Hazardous Substances) Regulations 2017.		

Hazard Class	Quantities
Not Applicable	Not Applicable

#### **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

#### Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.5A or 6.5B	120	1	3	

#### **Tracking Requirements**

Not Applicable

#### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (ethyltris(acetoxime)silane)	
Canada - DSL	No (ethyltris(acetoxime)silane)	
Canada - NDSL	No (ethyltris(acetoxime)silane; 3-aminopropyltriethoxysilane; dimethyltin dineodecanoate)	
China - IECSC	No (ethyltris(acetoxime)silane)	
Europe - EINEC / ELINCS / NLP	No (ethyltris(acetoxime)silane)	
Japan - ENCS	No (ethyltris(acetoxime)silane; dimethyltin dineodecanoate)	
Korea - KECI	No (ethyltris(acetoxime)silane)	
New Zealand - NZIoC	No (ethyltris(acetoxime)silane)	
Philippines - PICCS	No (ethyltris(acetoxime)silane)	
USA - TSCA	No (ethyltris(acetoxime)silane)	
Taiwan - TCSI	No (ethyltris(acetoxime)silane)	
Mexico - INSQ	No (ethyltris(acetoxime)silane; dimethyltin dineodecanoate)	
Vietnam - NCI	No (ethyltris(acetoxime)silane)	
Russia - FBEPH	No (ethyltris(acetoxime)silane)	
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	11/06/2021
Initial Date	11/06/2021

#### **SDS Version Summary**

Version

Sections Updated

Version	Date of Update	Sections Updated	
2.1.2.1	29/04/2021	Regulation Change	
2.1.2.2	30/05/2021	Template Change	
2.1.2.3	04/06/2021	Template Change	
2.1.2.4	05/06/2021	Template Change	
2.1.2.5	09/06/2021	Template Change	
2.1.2.5	11/06/2021	Chronic Health	
2.1.2.6	11/06/2021	Template Change	
2.1.3.6	14/06/2021	Regulation Change	
2.1.3.7	15/06/2021	Template Change	

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch 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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