

# TRANSIL PART A BARNES PRODUCTS PTY LTD

Chemwatch: 5252-58 Version No: 6.1 Chemwatch Hazard Alert Code: 3

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: **16/03/2023** Print Date: **19/06/2023** S.GHS.NZL.EN.E

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

Product Identifier	
Product name	TRANSIL PART A
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

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

Registered company name	BARNES PRODUCTS PTY LTD
Address	5 GREENHILLS AVE MOOREBANK NSW 2170 Australia
Telephone	Barnes Australia +612 9793 7555 Mon-Fri 8am-4:30pm
Fax	Barnes Australia +612 9793 7091
Website	www.barnesnz.co.nz
Email	sales@barnes.com.au

### Emergency telephone number

Association / Organisation	New Zealand Poisons Information Centre	
Emergency telephone numbers	Barnes NZ +649 9731 816 - Monday-Thursday 9am-5pm Friday 9am-4.30pm	
Other emergency telephone numbers	New Zealand Poisons Information Centre 0800 764 766 After Hours	

### **SECTION 2 Hazards identification**

Classification of the substance or mixture	
Classification <sup>[1]</sup>	Skin Corrosion/Irritation 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

### Label elements

Hazard pictogram(s)	
Signal word	Warning
Hazard statement(s)	
H315	Causes skin irritation.
Precautionary statement(s) Prevention	
P280	Wear protective gloves and protective clothing.
P264	Wash all exposed external body areas thoroughly after handling.

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# TRANSIL PART A

P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P332+P313	If skin irritation occurs: 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

Not Applicable

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

#### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
70900-21-9	20-50	dimethylsiloxane, hydrogen terminated
232261-92-6	<10	dimethylsiloxane, methyl hydrogen, methyl phenol terminated
68037-59-2	<10	dimethylsiloxane. methylhydrogen-
2530-83-8	<3	gamma-glycidoxypropyltrimethoxysilane
Not Available	balance	Ingredients determined not to be hazardous
Not Available		Contact with water or moisture causes release of
67-56-1		methanol
Legend:	1. Classified by Chemwar 4. Classification drawn fro	tch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; m C&L * EU IOELVs available

# **SECTION 4 First aid measures**

#### Description of first aid measures If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper Eye Contact and lower lids Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Skin Contact Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Inhalation Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary Transport to hospital, or doctor. 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. Ingestion 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.

Fire Fighting

Prevent, by any means available, spillage from entering drains or water course.

	<ul> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>Do not approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> </ul>
Fire/Explosion Hazard	<ul> <li>High temperature decomposition products include silicon dioxide, small amounts of formaldehyde, formic acid, acetic acid and traces of silicon polymers.</li> <li>These gases may ignite and, depending on circumstances, may cause the resin/polymer to ignite.</li> <li>An outer skin of silica may also form. Extinguishing of fire, beneath the skin, may be difficult.</li> <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>silicon dioxide (SiO2)</li> <li>other pyrolysis products typical of burning organic material.</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>Slippery when spilt.</li> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Silicone fluids, even in small quantities, may present a slip hazard.</li> <li>It may be necessary to rope off area and place warning signs around perimeter.</li> <li>Clean up area from spill, with suitable absorbant, as soon as practically possible.</li> <li>Final cleaning may require use of steam, solvents or detergents.</li> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <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 course.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> </ul>

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

# **SECTION 7 Handling and storage**

### Precautions for safe handling

Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <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>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</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

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Traces of benzene, a carcinogen, may form when silicones are heated in air above 230 degrees C. Concentrated acids and bases cause degradation of polymer. Boiling water may soften and weaken material.</li> <li>Avoid strong acids, bases.</li> <li>Avoid reaction with oxidising agents</li> </ul>

# **SECTION 8 Exposure controls / personal protection**

# **Control parameters**

# Occupational Exposure Limits (OEL)

INGREDIE	NT DATA

	Source	Ingredient	Material name	TWA		STEL	Peak	Note	es
	New Zealand Workplace Exposure Standards (WES)	methanol	Methanol (Methyl alcohol)	200 ppm / mg/m3	/ 262	328 mg/m3 / 250 ppm	Not Available	(skir estir	n) - Skin absorption (bio) - Exposure can also be nated by biological monitoring
l	Emergency Limits								
	Ingredient	TEEL-1			TEEL	-2			TEEL-3
	dimethylsiloxane, hydrogen terminated	30 mg/m3			330 n	ng/m3			2,000 mg/m3
	dimethylsiloxane, methylhydrogen-	30 mg/m3			330 n	330 mg/m3		2,000 mg/m3	
	gamma- glycidoxypropyltrimethoxysilane	9.3 mg/m3			100 n	ng/m3			230 mg/m3
	methanol	Not Available	•		Not A	vailable			Not Available
ļ	Ingredient	Original IDLH				Revised IDLH			
	dimethylsiloxane, hydrogen terminated	Not Available			Not Available				
	dimethylsiloxane, methyl hydrogen, methyl phenol terminated	Not Available			Not Available				
	dimethylsiloxane, methylhydrogen-	Not Available	Not Available				Not Available		
	gamma- glycidoxypropyltrimethoxysilane	Not Available				Not Available			
	methanol	6,000 ppm			Not Available				
ļ	Occupational Exposure Banding								
	Ingredient	Occupationa	al Exposure Band Rat	ing			Occupational	Expos	sure Band Limit
	dimethylsiloxane, hydrogen terminated	E			≤ 0.1 ppm				
	dimethylsiloxane,	E			< 0.1 mm				

dimethylsiloxane, methylhydrogen-	E	≤ 0.1 ppm	
gamma- glycidoxypropyltrimethoxysilane	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.		

# Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Refer also to protective measures for the other component used with the product. Read both SDS before using; store and attach SDS together.
Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>Safety glasses with side shields; or as required,</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</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.</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>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</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>Eve wash unit</li> </ul>

# Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	CPI
BUTYL	A
BUTYL/NEOPRENE	A
PE/EVAL/PE	A
PVDC/PE/PVDC	A
SARANEX-23 2-PLY	A
SARANEX-23	A
TEFLON	A
VITON/NEOPRENE	A
NEOPRENE	В
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
PVA	С
PVC	C

# \* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### **SECTION 9** Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Translucent viscous liquid with characteristic odour; does not mix with water.				
Physical state	Liquid	Relative density (Water = 1)	~1.0		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	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	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	Immiscible	pH as a solution (1%)	Not Applicable		
Vapour density (Air = 1)	>1	VOC g/L	Not Available		

### **Respiratory protection**

Type AX-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 5 x ES	AX-AUS / Class 1 P2	-	AX-PAPR-AUS / Class 1 P2
up to 25 x ES	Air-line*	AX-2 P2	AX-PAPR-2 P2
up to 50 x ES	-	AX-3 P2	-
50+ x ES	-	Air-line**	-

 $^{\star}$  - Continuous-flow;  $\,\,^{\star\star}$  - Continuous-flow or positive pressure demand  $^{\wedge}$  - 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)

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
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 ef	fects
Inhaled	Not normally a hazard due to non-volatile nature of product
Ingestion	The material has <b>NOT</b> 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.
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.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Long-term exposure to methanol vapour, at concentrations exceeding 3000 ppm, may produce cumulative effects characterised by gastrointestinal disturbances (nausea, vomiting), headache, ringing in the ears, insomnia, trembling, unsteady gait, vertigo, conjunctivitis and clouded or double vision. Liver and/or kidney injury may also result.

	ΤΟΧΙCΙΤΥ	IRRITATION
TRANSIL PART A	Dermal (Rat) LD50: >2008 mg/kg <sup>[2]</sup>	Not Available
	Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>	
dimethylsiloxane, hydrogen	ΤΟΧΙΟΙΤΥ	IRRITATION
terminated	Not Available	Not Available
dimethylsiloxane, methyl	ΤΟΧΙΟΙΤΥ	IRRITATION
terminated	Not Available	Not Available
dimethylsiloxane,	TOXICITY	IRRITATION
methylhydrogen-	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
gamma-	Dermal (rabbit) LD50: 4247.9 mg/kg <sup>[2]</sup>	Not Available
glycidoxypropyltrimethoxysilane	Inhalation(Rat) LC50: >5.3 mg/L4h <sup>[2]</sup>	
	Oral (Rat) LD50: 7010 mg/kg <sup>[2]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 15800 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg/24h-moderate
	Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup>	Eye (rabbit): 40 mg-moderate
methanol	Oral (Rat) LD50: 5628 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
		Skin (rabbit): 20 mg/24 h-moderate
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute to	oxicity 2. Value obtained from manufacturer's SDS. Unless otherwise

specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

DIMETHYLSILOXANE, HYDROGEN TERMINATED Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. 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. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

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GLYCIDOXYPROPYLTRIMETHOX	GAMMA- YSILANE	Low molecular weight alkoxysilane can cau However, studies suggest with repeated oc cancer. For gamma-glycidopropyltrimehoxysilane (0 due primarily to methanol and silanetriols. O humans or in animals. GPTMS has been sh tumours. It causes developmental effects, b Oxiranes (including glycidyl ethers and alky toxicology. One such oxirane is ethyloxirane For 1,2-butylene oxide (ethyloxirane): In animal testing, ethyloxirane increased the tumours were not observed in mice chronic methyloxirane (propylene oxide), which are	irreversible lung damage when inhaled at low dose. It is not an obvious skin irritant. pational exposure, methoxysilane may cause damage to the eye and skin as well as 'TMS): GPTMS undergoes rapid hydrolysis and the observed toxicity is expected to be TMS is mildly irritating to the skin and eyes and is not a known skin sensitiser in vn to cause chromosomal damage and gene mutations. It is not considered to cause only at levels which are toxic to the mother. wides, and epoxides) share many common characteristics with respect to animal data presented here may be taken as representative. ncidence of tumours of the airways in animals exposed via inhalation. However, y exposed via skin. Two structurally related substances, oxirane (ethylene oxide) and so direct-acting alkylating agents, have been classified as causing cancer.		
METHANOL The material may cause skin irritatic production of vesicles, scaling and t		The material may cause skin irritation after production of vesicles, scaling and thickenir	after prolonged or repeated exposure and may produce on contact skin redness, swelling, the kening of the skin.		
DIMETHYLSILOXANE, HYDROGEN TERMINATED & DIMETHYLSILOXANE, METHYL HYDROGEN, METHYL PHENOL TERMINATED & DIMETHYLSILOXANE, METHYL HYDROGEN-		Siloxanes may impair liver and hormonal function, as well as the lung and kidney. They have not been found to be irritating to the skin and eyes. They may potentially cause cancer (tumours of the womb in females) and may cause impaired fertility or infertility. No significant acute toxicological data identified in literature search.			
				<b>N</b>	
Acute Toxicity X		Carcinogenicity	×		
Skin Irritation/Corrosion		Reproductivity	×		
Serious Eye Damage/Irritation 🗙		STOT - Single Exposure	×		
Respiratory or Skin sensitisation		STOT - Repeated Exposure	×		

Legend:

Aspiration Hazard X

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

# SECTION 12 Ecological information

Mutagenicity 🗙

	Endpoint	Test Duration (hr)	Species	Value	Source
TRANSIL PART A	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
dimethylsiloxane, hydrogen terminated	Not Available	Not Available	Not Available	Not Available	Not Available
dimethylsiloxane, methyl	Endpoint	Test Duration (hr)	Species	Value	Source
hydrogen, methyl phenol terminated	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
dimethylsiloxane, methylhydrogen-	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	96h	Fish	1.5mg/l	2
gamma-	EC50	96h	Algae or other aquatic plants	250mg/l	2
glycidoxypropyltrimethoxysilane	EC50	72h	Algae or other aquatic plants	>420mg/l	2
	LC50	96h	Fish	4.9mg/l	2
	EC50	48h	Crustacea	473mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	720h	Fish	0.007mg/L	4
methanol	LC50	96h	Fish	290mg/l	2
	EC50	96h	Algae or other aquatic plants	14.11-20.623mg/l	4
	EC50	48h	Crustacea	>10000mg/l	2

DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
gamma- glycidoxypropyltrimethoxysilane	HIGH	HIGH

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Ingredient	Persistence: Water/Soil	Persistence: Air
methanol	LOW	LOW
Bioaccumulative potential		
Ingredient	Bioaccumulation	
gamma- glycidoxypropyltrimethoxysilane	LOW (LogKOW = -0.9152)	
methanol LOW (BCF = 10)		
Mobility in soil		
Ingredient	Mobility	
gamma- glycidoxypropyltrimethoxysilane	LOW (KOC = 90.22)	
methanol	HIGH (KOC = 1)	

# **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>	

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
dimethylsiloxane, hydrogen terminated	Not Available
dimethylsiloxane, methyl hydrogen, methyl phenol terminated	Not Available
dimethylsiloxane, methylhydrogen-	Not Available
gamma- glycidoxypropyltrimethoxysilane	Not Available
methanol	Not Available

# Transport in bulk in accordance with the IGC Code

Product name	Ship Type
dimethylsiloxane, hydrogen terminated	Not Available
dimethylsiloxane, methyl hydrogen, methyl phenol terminated	Not Available
dimethylsiloxane, methylhydrogen-	Not Available

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### TRANSIL PART A

Product name	Ship Type
gamma- glycidoxypropyltrimethoxysilane	Not Available
methanol	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	
HSR002521	Animal Nutritional and Animal Care Products Group Standard 2020	
HSR002530	Cleaning Products Subsidiary Hazard Group Standard 2020	
HSR002535	Gases under Pressure Mixtures Subsidiary Hazard Group Standard 2020	
HSR002503	Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020	
HSR002606	Lubricants Lubricant Additives Coolants and Anti freeze Agents Subsidiary Hazard Group Standard 2020	
HSR002612	Metal Industry Products Subsidiary Hazard Group Standard 2020	
HSR002624	N.O.S. Subsidiary Hazard Group Standard 2020	
HSR002638	Photographic Chemicals Subsidiary Hazard Group Standard 2020	
HSR002644	Polymers Subsidiary Hazard Group Standard 2020	
HSR002647	Reagent Kits Group Standard 2020	
HSR002648	Refining Catalysts Group Standard 2020	
HSR002653	Solvents Subsidiary Hazard Group Standard 2020	
HSR002670	Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020	
HSR002684	Water Treatment Chemicals Subsidiary Hazard Group Standard 2020	
HSR100425	Pharmaceutical Active Ingredients Group Standard 2020	
HSR002600	Leather and Textile Products Subsidiary Hazard Group Standard 2020	
HSR002605	Lubricants Low Hazard Group Standard 2020	
HSR002544	Construction Products Subsidiary Hazard Group Standard 2020	
HSR002549	Corrosion Inhibitors Subsidiary Hazard Group Standard 2020	
HSR002552	Cosmetic Products Group Standard 2020	
HSR002558	Dental Products Subsidiary Hazard Group Standard 2020	
HSR002565	Embalming Products Subsidiary Hazard Group Standard 2020	
HSR002571	Fertilisers Subsidiary Hazard Group Standard 2020	
HSR002573	Fire Fighting Chemicals Group Standard 2021	
HSR002578	Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020	
HSR002585	Fuel Additives Subsidiary Hazard Group Standard 2020	
HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2020	
HSR100580	Tattoo and Permanent Makeup Substances Group Standard 2020	
HSR100757	Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020	
HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020	
HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020	
HSR100592	Agricultural Compounds Special Circumstances Group Standard 2020	
HSR100756	Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020	

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

### dimethylsiloxane, hydrogen terminated is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

### dimethylsiloxane, methyl hydrogen, methyl phenol terminated is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

### dimethylsiloxane, methylhydrogen- is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

### gamma-glycidoxypropyltrimethoxysilane is found on the following regulatory lists

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

### methanol is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

### Hazardous Substance Location

Subject to the Health and Safety at 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
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

### **Tracking Requirements**

Not Applicable

### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	No (dimethylsiloxane, methyl hydrogen, methyl phenol terminated)		
Canada - DSL	No (dimethylsiloxane, methyl hydrogen, methyl phenol terminated)		
Canada - NDSL	No (dimethylsiloxane, hydrogen terminated; dimethylsiloxane, methyl hydrogen, methyl phenol terminated; dimethylsiloxane, methylhydrogen-; gamma-glycidoxypropyltrimethoxysilane; methanol)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	No (dimethylsiloxane, hydrogen terminated; dimethylsiloxane, methyl hydrogen, methyl phenol terminated; dimethylsiloxane, methylhydrogen-)		
Japan - ENCS	No (dimethylsiloxane, methyl hydrogen, methyl phenol terminated)		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	No (dimethylsiloxane, methyl hydrogen, methyl phenol terminated)		
USA - TSCA	No (dimethylsiloxane, methyl hydrogen, methyl phenol terminated)		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (dimethylsiloxane, hydrogen terminated; dimethylsiloxane, methyl hydrogen, methyl phenol terminated; gamma- glycidoxypropyltrimethoxysilane)		
Vietnam - NCI	Yes		
Russia - FBEPH	No (dimethylsiloxane, hydrogen terminated; dimethylsiloxane, methyl hydrogen, methyl phenol terminated; dimethylsiloxane, methylhydrogen-)		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

### **SECTION 16 Other information**

Revision Date	16/03/2023
Initial Date	02/05/2017

### **SDS Version Summary**

Version	Date of Update	Sections Updated
4.1	10/12/2021	Classification change due to full database hazard calculation/update.
6.1	16/03/2023	Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Supplier Information

### 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.

end of SDS

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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