TRANSIL PART A

Barnes Products P/L

Chemwatch: **5252-58** Version No: **6.1** Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Chemwatch Hazard Alert Code: 3

Issue Date: **16/03/2023** Print Date: **29/03/2023** S.GHS.AUS.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

Relevant identified uses	Use according to manufacturer's directions.
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	Barnes Products P/L
Address	5 Greenhills Avenue Moorebank NSW 2170 Australia
Telephone	+61 2 9793 7555
Fax	+61 2 9793 7091
Website	http://www.barnes.com.au/
Email	sales@barnes.com.au

Emergency telephone number

Association / Organisation	Barnes Products Pty Ltd
Emergency telephone numbers	+61 2 9793 7555 Business Hours
Other emergency telephone numbers	Poisons Information Centre 13 1126 after hours

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Chemwatch Hazard Ratings

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

Poisons Schedule	Not Applicable
Classification [1]	Skin Corrosion/Irritation Category 2, Reproductive Toxicity Category 1B
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI



Signal word Danger

Hazard statement(s)

H315	Causes skin irritation.
H360D	May damage the unborn child.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P280	Wear protective gloves and protective clothing.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
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

P405 Store locked up.

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
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 Chem Annex VI; 4. Classifica	watch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - ation drawn from C&L * EU IOELVs available

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 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 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.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Inhalation	 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. 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.
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
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Advice for firefighters

Fire Fighting	 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 course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location.
Fire/Explosion Hazard	 High temperature decomposition products include silicon dioxide, small amounts of formaldehyde, formic acid, acetic acid and traces of silicon polymers. These gases may ignite and, depending on circumstances, may cause the resin/polymer to ignite. An outer skin of silica may also form. Extinguishing of fire, beneath the skin, may be difficult. 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 dioxide (CO2) silicon dioxide (SiO2) other pyrolysis products typical of burning organic material.
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

	Slippery when spilt.
	Remove all ignition sources.
Minor Spills	Clean up all spills immediately.
	Avoid breathing vapours and contact with skin and eyes.
	Control personal contact with the substance, by using protective equipment.

	 Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Silicone fluids, even in small quantities, may present a slip hazard. It may be necessary to rope off area and place warning signs around perimeter. Clean up area from spill, with suitable absorbant, as soon as practically possible. Final cleaning may require use of steam, solvents or detergents. Moderate hazard. Clear area of personnel and move upwind. 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 course. No smoking, naked lights or ignition sources. Increase ventilation.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	 DO NOT allow clothing wet with material to stay in contact with skin 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. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. 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	 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. 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	STEL	Peak	Notes
Australia Exposure Standards	methanol	Methyl alcohol	200 ppm / 262 mg/m3	328 mg/m3 / 250 ppm	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
dimethylsiloxane, hydrogen terminated	30 mg/m3	330 mg/m3		2,000 mg/m3
dimethylsiloxane, methylhydrogen-	30 mg/m3	330 mg/m3		2,000 mg/m3
gamma- glycidoxypropyltrimethoxysilane	9.3 mg/m3	100 mg/m3		230 mg/m3
methanol	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
dimethylsiloxane, hydrogen terminated	Not Available		Not Available	

Ingredient	Original IDLH	Revised IDLH
dimethylsiloxane, methyl hydrogen, methyl phenol terminated	Not Available	Not Available
dimethylsiloxane, methylhydrogen-	Not Available	Not Available
gamma- glycidoxypropyltrimethoxysilane	Not Available	Not Available
methanol	6,000 ppm	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
dimethylsiloxane, hydrogen terminated	E	≤ 0.1 ppm	
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	 Safety glasses with side shields; or as required, 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.
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 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. 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. 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.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

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

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

TRANSIL PART A

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

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**	-

* - Continuous-flow; ** - Continuous-flow or positive pressure demand ^ - 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)

* 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

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

Appearance Translucent viscous liquid with characteristic odour; does not mix with water.

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	Not normally a hazard due to non-volatile nature of product
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.
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.

	ΤΟΧΙΟΙΤΥ	IRRITATION
TRANSIL PART A	Dermal (Rat) LD50: >2008 mg/kg ^[2]	Not Available
	Oral (Rat) LD50: >5000 mg/kg ^[2]	
dimethylsiloxane, hydrogen	ΤΟΧΙΟΙΤΥ	IRRITATION
terminated	Not Available	Not Available
dimethylsiloxane, methyl	ΤΟΧΙΟΙΤΥ	IRRITATION
nydrogen, metnyl pnenol terminated	Not Available	Not Available
dimethylsiloxane,	ΤΟΧΙΟΙΤΥ	IRRITATION
methylhydrogen-	Not Available	Not Available
gamma-	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 4247.9 mg/kg ^[2]	Not Available
glycidoxypropyltrimethoxysilane	Inhalation(Rat) LC50: >5.3 mg/L4h ^[2]	
	Oral (Rat) LD50: 7010 mg/kg ^[2]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 15800 mg/kg ^[2]	Eye (rabbit): 100 mg/24h-moderate
mother at	Inhalation(Rat) LC50: 64000 ppm4h ^[2]	Eye (rabbit): 40 mg-moderate
methanol	Oral (Rat) LD50: 5628 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
		Skin (rabbit): 20 mg/24 h-moderate
		Skin: no adverse effect observed (not irritating) ^[1]
Legend: 1. Va Univ	alue obtained from Europe ECHA Registered Substan ess otherwise specified data extracted from RTECS -	ces - Acute toxicity 2. Value obtained from manufacturer's SDS. 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 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.
GAMMA- GLYCIDOXYPROPYLTRIMETHOXYSILANE	Low molecular weight alkoxysilane can cause irreversible lung damage when inhaled at low dose. It is not an obvious skin irritant. However, studies suggest with repeated occupational exposure, methoxysilane may cause damage to the eye and skin as well as cancer. For gamma-glycidopropyltrimehoxysilane (GPTMS): GPTMS undergoes rapid hydrolysis and the observed toxicity is expected to be due primarily to methanol and silanetriols. GPTMS is mildly irritating to the skin and eyes and is not a known skin sensitiser in humans or in animals. GPTMS has been shown to cause chromosomal damage and gene mutations. It is not considered to cause tumours. It causes developmental effects, but only at levels which are toxic to the mother. Oxiranes (including glycidyl ethers and alkyl oxides, and epoxides) share many common characteristics with respect to animal toxicology. One such oxirane is ethyloxirane; data presented here may be taken as representative. For 1,2-butylene oxide (ethyloxirane): In animal testing, ethyloxirane increased the incidence of tumours of the airways in animals exposed via inhalation. However, tumours were not observed in mice chronically exposed via skin. Two structurally related substances, oxirane (ethylene oxide) and methyloxirane (propylene oxide), which are also direct-acting alkylating agents, have been classified as causing cancer.
METHANOL	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
DIMETHYLSILOXANE, HYDROGEN TERMINATED & DIMETHYLSILOXANE, METHYL HYDROGEN, METHYL PHENOL TERMINATED & DIMETHYLSILOXANE,	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.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
			Siehle en deze wet fill the exiterie fer eleccification.

Legend:

 \mathbf{X} – Data either not available or does not fill the criteria for classification Data available to make classification

SECTION 12 Ecological information

METHYLHYDROGEN-

Toxicity

	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
dimethylsiloxane, methylhydrogen-	Endpoint	Test Duration (hr)	Species		Value	Source
	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	0.007	mg/L	4
methanol	LC50	96h	Fish	290m	g/l	2
	EC50	96h	Algae or other aquatic plants	14.11	-20.623mg/l	4

	EC50	48h	Crustacea	>10000mg/l	2
Legend:	Extracted from 1. IUC	LID Toxicity Data 2. Europe ECHA R	egistered Substances - Ecotoxicologic	cal Information - Aqua	tic Toxicity
	4. US EPA, Ecotox da	tabase - Aquatic Toxicity Data 5. ECE	= I OC Aquatic Hazard Assessment Da	ata 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
gamma- glycidoxypropyltrimethoxysilane	HIGH	HIGH
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

	Recycle wherever possible or consult manufacturer for recycling options.	
Product / Packaging	Consult State Land Waste Authority for disposal.	
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
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
gamma- glycidoxypropyltrimethoxysilane	Not Available
methanol	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation spec	ific for the substance or mixture			
dimethylsiloxane, hydrogen terminated is found on the following regulatory lists				
Australia Standard for the Uniform Scheduling of Medicines and Poisons	Australian Inventory of Industrial Chemicals (AIIC)			
(SUSMP) - Schedule 4				
dimethylsiloxane, methyl hydrogen, methyl phenol terminated is found on	the following regulatory lists			
Not Applicable				
dimethylsiloxane, methylhydrogen- is found on the following regulatory lists				
Australia Standard for the Uniform Scheduling of Medicines and Poisons	Australian Inventory of Industrial Chemicals (AIIC)			
(SUSMP) - Schedule 4				
gamma-glycidoxypropyltrimethoxysilane is found on the following regulate	ory lists			
Australian Inventory of Industrial Chemicals (AIIC)				
methanol is found on the following regulatory lists				
Australia Hazardous Chemical Information System (HCIS) - Hazardous	Australia Standard for the Uniform Scheduling of Medicines and Poisons			
Australia Standard for the Uniform Scheduling of Medicines and Poisons	Australian Inventory of Industrial Chemicals (AIIC)			
(SUSMP) - Schedule 5	Chemical Footprint Project - Chemicals of High Concern List			

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	No (dimethylsiloxane, methyl hydrogen, methyl phenol terminated)		
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.		

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。 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 This document is copyright.

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