

# E43

# **BARNES PRODUCTS PTY LTD**

Chemwatch: 5258-16 Version No: 7.1 Chemwatch Hazard Alert Code: 2

Issue Date: **17/03/2023** Print Date: **08/06/2023** S.GHS.NZL.EN.E

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

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

## **Product Identifier**

Product name	E43
Chemical Name	Not Applicable
Synonyms	ELASTOSIL E43 TRAN 01,; ELASTOSIL E43 TRANSLUCENT 01
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	Industrial. Adhesive / sealant .
Relevant lucitatieu uses	Use according to manufacturer's directions.

## 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, Serious Eye Damage/Eye Irritation Category 1	
Legend:	1. Classified by Chernwatch; 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, 8.3A	

# Label elements

Hazard pictogram(s)	
Signal word	Danger
Hazard statement(s)	
H315	Causes skin irritation.
H318	Causes serious eye damage.

## Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

# Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	
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
4253-34-3	<5	methyltriacetoxysilane
71-23-8	<1	n-propanol
1067-33-0	<0.1	dibutyltin diacetate
Not Available	NotSpec	Polydimethylsiloxane and fillers and auxiliaries and acetoxysilane cross-linker
64-19-7	NotSpec	acetic acid glacial
Not Available	NotSpec	tin compounds
Legend:	<ol> <li>Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;</li> <li>Classification drawn from C&amp;L * EU IOELVs available</li> </ol>	

# **SECTION 4 First aid measures**

# Description of first aid measures

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	<ul> <li>If skin contact occurs:</li> <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
dvice for firefighters	

Advice for firefighters		
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> </ul>	

	<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> </ul>
Fire/Explosion Hazard	Mists containing combustible materials may be explosive.
	Combustion products include:
	carbon dioxide (CO2)
	other pyrolysis products typical of burning organic material.
	May emit poisonous fumes.
	May emit corrosive fumes.

# **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> </ul>

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

# **SECTION 7 Handling and storage**

# Precautions for safe handling

I recautione for care nanaling	
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> </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

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>Acetic acid:</li> <li>vapours forms explosive mixtures with air (above 39 C.)</li> <li>reacts violently with bases such as carbonates and hydroxides (giving off large quantities of heat), oxidisers, organic amines, acetaldehyde, potassium tert-butoxide</li> <li>reacts (sometimes violently), with strong acids, aliphatic amines, alkanolamines, alkylene oxides, epichlorohydrin, acetic anhydride, 2-aminoethanol, ammonium nitrate, bromine pentafluoride, chlorosulfonic acid, chromic acid, chromium tritoxide, ethylenediamine, ethyleneimine, hydrogen peroxide, isocyanates, oleum, perchloric acid, permanganates, phosphorus isocyanate, phosphorus trichloride, sodium peroxide, xylene</li> <li>attacks cast iron, stainless steel and other metals, forming flammable hydrogen gas</li> <li>Avoid reaction with oxidising agents</li> </ul>

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

## **Control parameters**

# Occupational Exposure Limits (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace	n-propanol	n-Propyl alcohol	200 ppm / 492	614 mg/m3 / 250	Not	(skin) - Skin absorption

lew Zealand Workplace (wexposure Standards (WES) diacetate as Sn 0.1 mg/m3 0.2 mg/m3 Not Available (Skin) - Skin absorption of Available acetic acid glacial Acetic acid 10 pm / 25 mg/m3 Not Available Not Available mergency Limits mergency Limits mergency Limits server and final acetic acid 10 pm / 25 mg/m3 ST mg/m3 / 15 pm Not Available 5 mg/m3 ST 250 ppm ST 250 p	Source	Ingredient	Material name	TWA	STEL	Peak	Notes	
xposure Standards (WES)       diacetie       as Sn       0.1 mg/m3       0.2 mg/m3       Available       Otoxxin         lew Zealand Workplace gasard Standards (WES)       acotic acid gasard       Acetic acid       10 ppm / 25       37 mg/m3 / 15       Not Available       Not Available         imergency Limits       TEEL-1       TEEL-2       TEEL-3       250 mg/m3         proponol       250 ppm       670 ppm       4000° pm       4000° pm         proponol       0.58 mg/m3       6.5 mg/m3       38 mg/m3       39 mg/m3         cetic acid glacial       Not Available       Not Available       Not Available         reproponol       0.59 mg/m3       6.5 mg/m3       38 mg/m3	Exposure Standards (WES)			mg/m3	ppm	Available		
sposure Standards (WES)         glacial         Accilic BOD         mg/m3         ppm         Available         Not Available           imargency Linits         TEL-1         TEL-2         TEL-3         Imagency Linits	New Zealand Workplace Exposure Standards (WES)			0.1 mg/m3	0.2 mg/m3		(skin) - Skin absorption oto - Ototoxin	
rgredient       TEEL-1       TEEL-2       TEEL-3         nethyltriacetoxysllane       5 mg/m3       35 mg/m3       250 mg/m3       250 mg/m3         -propand       250 ppm       670 ppm       4000' ppm       400' ppm         iburyltin diacetale       0.59 mg/m3       6.5 mg/m3       39 mg/m3       39 mg/m3       39 mg/m3       39 mg/m3       30 mg/m3	New Zealand Workplace Exposure Standards (WES)		Acetic acid		-		Not Available	
Sendirul Mizacetax       5 mg/m3       35 mg/m3       250 mg/m3         -propanol       250 ppm       670 ppm       4000° ppm         -propanol       0.59 mg/m3       6.5 mg/m3       39 mg/m3         cetic acid glacial       Not Available       Not Available       Not Available         regretient       Original IDLH       Revised IDLH       Not Available         propanol       800 ppm       Not Available       Not Available         -propanol       800 ppm       Not Available       Not Available         -propanol       800 ppm       Not Available       Not Available         popanol       50 ppm       Not Available       Not Available         popanol       So mg/m3       So mg/m3       So mg/m3         so mg/m3       So mg/m3 <td>Emergency Limits</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Emergency Limits							
propand       250 ppm       670 ppm       4000° ppm         ibulytin diacetate       0.59 mg/m3       6.5 mg/m3       39 mg/m3         cetic acid glacial       Not Available       Not Available       Not Available         gredient       Original IDLH       Revised IDLH       Revised IDLH         propanol       800 ppm       Not Available       Not Available         propanol       800 ppm       Not Available       Not Available         propanol       800 ppm       Not Available       Not Available         bulytin diacetate       25 mg/m3       Not Available       Not Available         propanol       800 ppm       Not Available       Not Available         propanol       800 ppm       Not Available       Not Available         propanol       800 ppm       Not Available       Not Available         propanol       90 ppm       Not Available       Not Available         propanol       90 ppm       Not Available       Not Available         propanol       90 ppm       Not Available       Not Available         propanol       Sof ppm oprotective in protecting oprotective and the spatind aprotection	Ingredient	TEEL-1		TEEL-2		TEEL-3		
butyltin diacetate 0.59 mg/m3 6.5 mg/m3 Cetic acid glacial Not Available So pm Not Available Not Available So pm Not Available Not	methyltriacetoxysilane	5 mg/m3		35 mg/m3		250 mg/m	3	
cetic acid glacial       Not Available       Not Available       Not Available         regedient       Original IDLH       Revised IDLH         rethyltriacetoxysilane       Not Available       Not Available         optiopanol       800 ppm       Not Available       Not Available         optiopanol       800 ppm       Not Available       Not Available         optiopanol       800 ppm       Not Available       Not Available         posure controls       Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls be highly effective in protecting workers an avail 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 strategics?         endividual protection measures, such as personal protective equipment       Safety glasses with side shields. Controls to prevent employee overexposure.       Safety diagonal the strategics and accontaminant in use. Employers may need to use multiple types of controls to prevent employee oreactive equipment should be tradeed involve and oncentrate infrast. A written policy document, description the work and oncentrate infrasting personal and adsorption for the class of chemical in use and accontaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.       Safety glas	n-propanol	250 ppm		670 ppm		4000* ppr	n	
Image: Program       Original IDLH       Revised IDLH         nethyltriacetoxysilane       Not Available       Not Available         propanol       800 pm       Not Available         poppanol       800 pm       Not Available         ibutyltin diacetate       25 mg/m3       Not Available         cetic acid glacial       50 ppm       Not Available         posure controls       Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls 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 used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls 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 used to remove and a selected hazard "pysically" away in port to worker and ventilation that strategica "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant in use. Employeers may need to use multiple types of controls to prevent employee overexposure.         Individual protection       • Safety glasses with side shields.         • Chemical poggies.       • Chemical poggies.         • Chemical poggies.       • Chemical poggies.         • Chemical poggies.       • Chemical equipment should be created for each workplace or task. This should engine e	dibutyltin diacetate	0.59 mg/m3		6.5 mg/m3		39 mg/m3		
Individual protection       Not Available       Not Available         -propanol       800 ppm       Not Available         -propanol       800 ppm       Not Available         ibutyttin diacetate       25 mg/m3       Not Available         cetic add glacial       50 ppm       Not Available         posure controls       Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls are:         Appropriate engineering controls are:       Process controls which involve changing the way a job activity or process is done to reduce the risk.         Encisioneering controls are:       Process controls which involve changing the way a job activity or process is done to reduce the risk.         Encisoneering controls are:       Process controls which involve changing the way a job activity or process is done to reduce the risk.         Encisoneering controls are:       Process controls which involve changing the way a job activity or process is done to reduce the risk.         Encisoneering controls are:       Process controls which involve changing the way a job activity or process is done to reduce the risk.         Encisoneering controls are:       Process controls which involve changing the way a job activity or process is done to reduce the risk.         Encisoneering controls are:       Process controls to prevent employee overexposure.         Individual protection       Stafety glasses with side shields.	acetic acid glacial	Not Available		Not Available		Not Availa	ble	
proposed     800 ppm     Not Available       ibutytiin diacetate     25 mg/m3     Not Available       cetic acid glacial     50 ppm     Not Available       posure controls       Process controls with the 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 with involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isoslation of emission source which keeps a selected bazard "physically" away from the worker and ventilation that strategics "adds" and "removes" in the work revinoment. Ventilation can remove or dilute an air contaminant if designed property. 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.       Individual protection measures, such as personal protective equipment <ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Safety glasses with side shields.</li> <li>Chemical lenses may pose a special hazard; soft contact lenses may absorb and concentrate initants. A written policy document, describin the wearing of lenses or restrictions on use, should be created for each workfolace or task. This should include a review of lens absorption in their removal and suitable equipment should be traded for each workfolace or task. This should include a review of lens absorption in the class of chemicals in use and an account of injuny experience. Medical and first-aid personnel should be traded for the removal and suitable equipment should be created for each workfacia de presonnel should be trained in their removal and suitable e</li></ul>	Ingredient	Original IDLH			Revised IDLH			
bitytlin diacetate       25 mg/m3       Not Available         cetic acid glacial       50 ppm       Not Available         posure controls       Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls 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:         Appropriate engineering controls       Fincess 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 strategics "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.         Individual protection measures, such as personal protection of low Set may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describin the waring 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 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 created for each workplace or task. This should include a review of lens absorption and adsorptin for the	nethyltriacetoxysilane	Not Available			Not Available			
cetic acid glacial       50 pm       Not Available         posure controls       Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls 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 strategice "adds" and "temoves" 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.         Individual protection measures, such as personal protection.       • Safety glasses with side shields.         • Chemical goggles.       • Contact lenses may pase a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describit 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 dostoption for the class of chemicals in use and an account of injury experience. Medical and first-aid personal should be trained in their removal and suitable equipment 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 personal should be trained in their removal and suitable equipment should be created for each workplace or task. This should i	n-propanol	800 ppm			Not Available			
posure controls         Appropriate engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basis types of engineering controls are:         Appropriate engineering 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 strategice "add" and "enovers" air in the work environment. Ventilation can remove or dilute an air contaminant if designed property. 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.         Individual protection measures, such as personal protections.       • Safety glasses with side shields.         • Chemical goggles.       • Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describin 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 remove and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remover contact lens as soon as practicable.         Eye and face protection       Skin protection below         • Contact lenses area pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describin their removal and suitable equipment shou	dibutyltin diacetate	25 mg/m3			Not Available	Not Available		
Appropriate engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls 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:         Appropriate engineering controls       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 strategica "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.         Individual protection measures, such as personal protection equipment <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, describin 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 created for each workplace or task. This should include a review of lens as soon as practicable.</li> </ul> <li>Skin protection</li> <li>Sken protection below</li> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li>	acetic acid glacial	50 ppm			Not Available			
Individual protection       Image: Construction         measures, such as personal       Image: Construction         protective equipment       Image: Safety glasses with side shields.         Eye and face protection       Image: Safety glasses with side shields.         Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describin         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.         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		Process controls Enclosure and/o "adds" and "rem ventilation syste	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 strategicall "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.					
Eye and face protection <ul> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describin 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.</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> </ul>	measures, such as personal		Employers may need to use multiple types of controls to prevent employee overexposure.					
Hands/feet protection <ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>	Eye and face protection	<ul> <li>Chemical go</li> <li>Contact lens the wearing and adsorpt their removal</li> </ul>	bggles. ses may pose a special hazard; of lenses or restrictions on use, ion for the class of chemicals in al and suitable equipment should	should be created for use and an account o d be readily available.	each workplace or task f injury experience. Mee	A. This should include the should include the should be added a	lude a review of lens absorption personnel should be trained in	
Wear safety footwear or safety gumboots, e.g. Rubber	Skin protection	See Hand prote	ction below					
Body protection See Other protection below	Hands/feet protection							
	Body protection	See Other prote	ction below					

Skin cleansing cream.
Eye wash unit.

Other protection

# 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  $\ensuremath{\textit{computer-generated}}$  selection:

Overalls.P.V.C apron.

Barrier cream.

#### E43

Material	CPI
NEOPRENE	А
NITRILE+PVC	А
TEFLON	А
NITRILE	В
BUTYL	С
BUTYL/NEOPRENE	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С
PE	С

## **Respiratory protection**

Type AB-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	AB-AUS P2	-	AB-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AB-AUS / Class 1 P2	-
up to 100 x ES	-	AB-2 P2	AB-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

PE/EVAL/PE	С
PVC	С
SARANEX-23	С
VITON	С

\* 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

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

nformation on basic physical and chemical properties					
Appearance	Transparent paste with a pungent odour; does not mix with water.				
Physical state	Non Slump Paste	Relative density (Water = 1)	1.09		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	~460		
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	300000 @ 25 degC		
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	Not Available	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	Not Available	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)	Not Available	VOC g/L	Not Available		

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 Toxicological information**

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident.		
Skin Contact	This material can cause inflammation of the skin on contact in some persons. 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 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	This material can cause eye irritation and damage in some persons.		
Chronic	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.		
E43	TOXICITY IRRITATION		

	Dermal (Rabbit) LD50: >2009 mg/kg <sup>[2]</sup>	Not Available	
	Oral (Rat) LD50: >2000 mg/kg <sup>[2]</sup>		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
methyltriacetoxysilane	Oral (Rat) LD50: 1550 mg/kg <sup>[1]</sup>		ct observed (irreversible damage) <sup>[1]</sup>
methymacetoxysnane			ect observed (corrosive) <sup>[1]</sup>
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: 5040 mg/kg <sup>[2]</sup>	Eye (rabbit): 20 m	ng/24h moderate
n-propanol	Inhalation(Rat) LC50: >33.8 mg/l4h <sup>[1]</sup>	Eye (rabbit): 4 mg	
in-propanor	Oral (Rat) LD50: 1870 mg/kg <sup>[2]</sup>	Skin (rabbit): 20 n	
		Skin (rabbit): 500	-
	ΤΟΧΙCΙΤΥ	IRRITATION	
dibutultin diagotata	Dermal (rabbit) LD50: 2318 mg/kg <sup>[2]</sup>	Not Available	
dibutyltin diacetate	Oral (Rat) LD50: 32 mg/kg <sup>[2]</sup>		
		IRRITATION	
acetic acid glacial	Dermal (rabbit) LD50: 1060 mg/kg <sup>[2]</sup>		mg (open)-SEVERE
	Inhalation(Mouse) LC50; 1.405 mg/L4h <sup>[2]</sup>	Skin (human):50n	-
	Oral (Rat) LD50: 3310 mg/kg <sup>[2]</sup>	Skin (rabbit):525n	ng (open)-SEVERE
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substa specified data extracted from RTECS - Register of Toxic</li> </ol>	-	ed from manufacturer's SDS. Unless otherwise
IETHYLTRIACETOXYSILANE	The material may produce moderate eye irritation leadin conjunctivitis. The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, exce urination, black/brown anogenital staining, paleness, and	I result in damage to the lung includir in animals include decreased body w ssive tear (sometimes coloured) prod d low body temperature. Autopsy sho	ng reduced lung function. reight and food intake, labored breathing, rales, re- duction, lethargy, irregular gait, hunched posture, r wed multiple abnormalities of the stomach.
<b>NETHYLTRIACETOXYSILANE</b>	conjunctivitis. The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, exce urination, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway. Tests on laboratory cells have not shown methyltriacetor	I result in damage to the lung includir in animals include decreased body w issive tear (sometimes coloured) prod d low body temperature. Autopsy sho to the skin, and corrosive to the eye kysilane to cause mutations or chrom	ng reduced lung function. eight and food intake, labored breathing, rales, re duction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. es of animals; as it is broken down by water to ace nosomal aberrations.
METHYLTRIACETOXYSILANE DIBUTYLTIN DIACETATE	conjunctivitis. The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, exce urination, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway.	I result in damage to the lung includir in animals include decreased body w issive tear (sometimes coloured) prod d low body temperature. Autopsy sho to the skin, and corrosive to the eye kysilane to cause mutations or chrom	ng reduced lung function. eight and food intake, labored breathing, rales, re duction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. es of animals; as it is broken down by water to ace nosomal aberrations.
METHYLTRIACETOXYSILANE DIBUTYLTIN DIACETATE ACETIC ACID GLACIAL	conjunctivitis. The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, exce urination, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway. Tests on laboratory cells have not shown methyltriacetox Foetal death and specific developmental abnormalities in	I result in damage to the lung includir in animals include decreased body w issive tear (sometimes coloured) prod d low body temperature. Autopsy sho e to the skin, and corrosive to the eye sysilane to cause mutations or chrom involving the central nervous system, e to genetic damage when the pH fall ay protect the cells of the airway from	ng reduced lung function. leight and food intake, labored breathing, rales, re duction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. is of animals; as it is broken down by water to ace losomal aberrations. craniofacial area and musculoskeletal system is to about 6.5. Cells from the respiratory tract have
DIBUTYLTIN DIACETATE	conjunctivitis. The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, excer urination, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway. Tests on laboratory cells have not shown methyltriacetox Foetal death and specific developmental abnormalities in recorded. For acid mists, aerosols, vapours Test results suggest that eukaryotic cells are susceptible not been examined in this respect. Mucous secretion ma	I result in damage to the lung includir in animals include decreased body w issive tear (sometimes coloured) prod d low body temperature. Autopsy sho to the skin, and corrosive to the eye kysilane to cause mutations or chrom involving the central nervous system, e to genetic damage when the pH fall ay protect the cells of the airway from careted there). In years after exposure to the material b) which can occur after exposure to vious airways disease in a non-atopic imented exposure to the irritant. Othe e bronchial hyperreactivity on methar or asthma) following an irritating inhal ating substance. On the other hand, i g substance (often particles) and is co	ng reduced lung function. leight and food intake, labored breathing, rales, reduction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. Is of animals; as it is broken down by water to ace losomal aberrations. craniofacial area and musculoskeletal system is to about 6.5. Cells from the respiratory tract have indirect exposure to inhaled acidic mists (which als ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main i individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversit choline challenge testing, and the lack of minimal lation is an infrequent disorder with rates related to industrial bronchitis is a disorder that occurs as a
DIBUTYLTIN DIACETATE ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & DIBUTYLTIN DIACETATE &	conjunctivitis. The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, exce urination, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway. Tests on laboratory cells have not shown methyltriacetox Foetal death and specific developmental abnormalities in recorded. For acid mists, aerosols, vapours Test results suggest that eukaryotic cells are susceptible not been examined in this respect. Mucous secretion ma protects the stomach lining from the hydrochloric acid se Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre- asthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to sever lymphocytic inflammation, without eosinophilia. RADS (c the concentration of and duration of exposure to the irritir result of exposure due to high concentrations of irritating	I result in damage to the lung includir in animals include decreased body w sissive tear (sometimes coloured) prod d low body temperature. Autopsy sho to the skin, and corrosive to the eye sysilane to cause mutations or chrom involving the central nervous system, to genetic damage when the pH fall ay protect the cells of the airway from correted there). In years after exposure to the material s) which can occur after exposure to vious airways disease in a non-atopic mented exposure to the irritant. Othe e bronchial hyperreactivity on methat or asthma) following an irritating inhal ating substance. On the other hand, i substance (often particles) and is co and mucus production.	ng reduced lung function. leight and food intake, labored breathing, rales, reduction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. Is of animals; as it is broken down by water to accent to somal aberrations. craniofacial area and musculoskeletal system is to about 6.5. Cells from the respiratory tract have a direct exposure to inhaled acidic mists (which also ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main c individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversit choline challenge testing, and the lack of minimal lation is an infrequent disorder with rates related to industrial bronchitis is a disorder that occurs as a ompletely reversible after exposure ceases. The
DIBUTYLTIN DIACETATE ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & N-PROPANOL	conjunctivitis. The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, exce urination, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway. Tests on laboratory cells have not shown methyltriacetox Foetal death and specific developmental abnormalities in recorded. For acid mists, aerosols, vapours Test results suggest that eukaryotic cells are susceptible not been examined in this respect. Mucous secretion ma protects the stomach lining from the hydrochloric acid se Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre- asthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to sever lymphocytic inflammation, without eosinophilia. RADS (c the concentration of and duration of exposure to the irritir result of exposure due to high concentrations of irritating disorder is characterized by difficulty breathing, cough ar	I result in damage to the lung includir in animals include decreased body w issive tear (sometimes coloured) prod d low body temperature. Autopsy sho to the skin, and corrosive to the eye eyestiane to cause mutations or chrom involving the central nervous system, et o genetic damage when the pH fall ay protect the cells of the airway from ecreted there). In years after exposure to the material S) which can occur after exposure to vious airways disease in a non-atopic imented exposure to the irritant. Othe e bronchial hyperreactivity on methac or asthma) following an irritating inhal ating substance (often particles) and is co and mucus production. repeated exposure and may produce fuce irritation and/ or corrosion at the nece, increase in blood cholinesterase	ng reduced lung function. leight and food intake, labored breathing, rales, re- duction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. es of animals; as it is broken down by water to acc to soomal aberrations. craniofacial area and musculoskeletal system is to about 6.5. Cells from the respiratory tract have indirect exposure to inhaled acidic mists (which also ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main c individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversit choline challenge testing, and the lack of minimal lation is an infrequent disorder with rates related t industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The e on contact skin redness, swelling, the production site of contact as well as systemic toxicity.
DIBUTYLTIN DIACETATE ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & N-PROPANOL METHYLTRIACETOXYSILANE	<ul> <li>conjunctivitis.</li> <li>The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, lack/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway.</li> <li>Tests on laboratory cells have not shown methyltriacetox</li> <li>Foetal death and specific developmental abnormalities in recorded.</li> <li>For acid mists, aerosols, vapours</li> <li>Test results suggest that eukaryotic cells are susceptible not been examined in this respect. Mucous secretion may protects the stomach lining from the hydrochloric acid set Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre asthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to severel lymphocytic inflammation, without eosinophilia. RADS (ct the concentration of and duration of exposure to the irritaresult of exposure due to high concentrations of irritating disorder is characterized by difficulty breathing, cough an The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.</li> </ul>	I result in damage to the lung includir in animals include decreased body w issive tear (sometimes coloured) prod d low body temperature. Autopsy sho to the skin, and corrosive to the eye sysilane to cause mutations or chrom involving the central nervous system, e to genetic damage when the pH fall ay protect the cells of the airway from creted there). In years after exposure to the material b) which can occur after exposure to vious airways disease in a non-atopic imented exposure to the irritant. Othe e bronchial hyperreactivity on methar or asthma) following an irritating inhal ating substance. On the other hand, i substance (often particles) and is co ind mucus production. I repeated exposure and may produce luce irritation and/ or corrosion at the ice, increase in blood cholinesterase I testing.	ng reduced lung function. leight and food intake, labored breathing, rales, re- duction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. es of animals; as it is broken down by water to acc to soomal aberrations. craniofacial area and musculoskeletal system is to about 6.5. Cells from the respiratory tract have indirect exposure to inhaled acidic mists (which also ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main c individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversit choline challenge testing, and the lack of minimal lation is an infrequent disorder that occurs as a completely reversible after exposure ceases. The e on contact skin redness, swelling, the production site of contact as well as systemic toxicity. activity, decrease in albumin and decreased grow
DIBUTYLTIN DIACETATE ACETIC ACID GLACIAL ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & N-PROPANOL METHYLTRIACETOXYSILANE & ACETIC ACID GLACIAL -PROPANOL & ACETIC ACID	<ul> <li>conjunctivitis.</li> <li>The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway.</li> <li>Tests on laboratory cells have not shown methyltriacetox</li> <li>Foetal death and specific developmental abnormalities in recorded.</li> <li>For acid mists, aerosols, vapours</li> <li>Test results suggest that eukaryotic cells are susceptible not been examined in this respect. Mucous secretion may protects the stomach lining from the hydrochloric acid set Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre asthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to severel lymphocytic inflammation, without eosinophilia. RADS (ci the concentration of and duration of exposure to the irritating disorder is characterized by difficulty breathing, cough and The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.</li> <li>Prolonged or repeated exposure to acetic acid may prodering to anima.</li> <li>The material may produce severe irritation to the eye ca</li> </ul>	I result in damage to the lung includir in animals include decreased body we issive tear (sometimes coloured) prod d low body temperature. Autopsy sho to the skin, and corrosive to the eye eysilane to cause mutations or chrom involving the central nervous system, et o genetic damage when the pH fall ay protect the cells of the airway from ecreted there). In years after exposure to the material S) which can occur after exposure to vious airways disease in a non-atopic imented exposure to the irritant. Othe e bronchial hyperreactivity on methac or asthma) following an irritating inhal ating substance. On the other hand, it is substance (often particles) and is co and mucus production. repeated exposure and may produce fuce irritation and/ or corrosion at the nece, increase in blood cholinesterase I testing. using pronounced inflammation. Rep inged or repeated exposure and may	ng reduced lung function. leight and food intake, labored breathing, rales, re- duction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. es of animals; as it is broken down by water to acc losomal aberrations. craniofacial area and musculoskeletal system s to about 6.5. Cells from the respiratory tract have a direct exposure to inhaled acidic mists (which also ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main c individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversit choline challenge testing, and the lack of minimal lation is an infrequent disorder with rates related t industrial bronchitis is a disorder that occurs as a ompletely reversible after exposure coases. The e on contact skin redness, swelling, the production site of contact as well as systemic toxicity. activity, decrease in albumin and decreased grow weated or prolonged exposure to irritants may produce on contact skin redness, swelling, the
DIBUTYLTIN DIACETATE ACETIC ACID GLACIAL ACETIC ACID GLACIAL ACETIVLTRIACETOXYSILANE & DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & ACETIC ACID GLACIAL PROPANOL & ACETIC ACID GLACIAL DIBUTYLTIN DIACETATE &	<ul> <li>conjunctivitis.</li> <li>The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway.</li> <li>Tests on laboratory cells have not shown methyltriacetox</li> <li>Foetal death and specific developmental abnormalities in recorded.</li> <li>For acid mists, aerosols, vapours</li> <li>Test results suggest that eukaryotic cells are susceptible not been examined in this respect. Mucous secretion may protects the stomach lining from the hydrochloric acid set Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre asthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to severel lymphocytic inflammation, without eosinophilia. RADS (ct the concentration of and duration of exposure to the irritating disorder is characterized by difficulty breathing, cough and The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.</li> <li>Prolonged or repeated exposure to acetic acid may prode prolonged inhalation exposure results in muscle imbalar but no reproductive or foetal toxicity, according to anima.</li> <li>The material may cause severe skin irritation after prolonged on the skin.</li> </ul>	I result in damage to the lung includir in animals include decreased body we issive tear (sometimes coloured) prod d low body temperature. Autopsy sho to the skin, and corrosive to the eye eysilane to cause mutations or chrom involving the central nervous system, et o genetic damage when the pH fall ay protect the cells of the airway from ecreted there). In years after exposure to the material S) which can occur after exposure to vious airways disease in a non-atopic imented exposure to the irritant. Othe e bronchial hyperreactivity on methac or asthma) following an irritating inhal ating substance. On the other hand, it is substance (often particles) and is co and mucus production. repeated exposure and may produce fuce irritation and/ or corrosion at the nece, increase in blood cholinesterase I testing. using pronounced inflammation. Rep inged or repeated exposure and may	ng reduced lung function. leight and food intake, labored breathing, rales, reduction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. es of animals; as it is broken down by water to ace to soomal aberrations. craniofacial area and musculoskeletal system is to about 6.5. Cells from the respiratory tract have a direct exposure to inhaled acidic mists (which also ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main c individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversite choline challenge testing, and the lack of minimal lation is an infrequent disorder with rates related th industrial bronchitis is a disorder that occurs as a ompletely reversible after exposure coases. The e on contact skin redness, swelling, the production site of contact as well as systemic toxicity. activity, decrease in albumin and decreased grow weated or prolonged exposure to irritants may produce on contact skin redness, swelling, the
DIBUTYLTIN DIACETATE ACETIC ACID GLACIAL ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & ACETIC ACID GLACIAL -PROPANOL & ACETIC ACID GLACIAL DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL	<ul> <li>conjunctivitis.</li> <li>The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway.</li> <li>Tests on laboratory cells have not shown methyltriaceto</li> <li>Foetal death and specific developmental abnormalities in recorded.</li> <li>For acid mists, aerosols, vapours</li> <li>Test results suggest that eukaryotic cells are susceptible not been examined in this respect. Mucous secretion may protects the stomach lining from the hydrochloric acid set shown as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre asthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to severe lymphocytic inflammation, without eosinophilia. RADS (c the concentration of and duration of exposure to the irritating disorder is characterized by difficulty breathing, cough an The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.</li> <li>Prolonged or repeated exposure to acetic acid may proderous conjunctivitis.</li> <li>The material may cause severe skin irritation to the eye ca produce conjunctivitis.</li> </ul>	I result in damage to the lung includir in animals include decreased body w issive tear (sometimes coloured) pro- source to the skin, and corrosive to the eye to the skin, and corrosive to the eye cysilane to cause mutations or chrom involving the central nervous system, et o genetic damage when the pH fall ay protect the cells of the airway from accreted there). In years after exposure to the material S) which can occur after exposure to vious airways disease in a non-atopic imented exposure to the irritant. Othe e bronchial hyperreactivity on methad or asthma) following an irritating inhal ating substance. On the other hand, i s gubstance (often particles) and is co and mucus production. repeated exposure and may produce luce irritation and/ or corrosion at the noce, increase in blood cholinesterase I testing. using pronounced inflammation. Rep inged or repeated exposure may produce	ng reduced lung function. leight and food intake, labored breathing, rales, reduction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. as of animals; as it is broken down by water to accent lossomal aberrations. craniofacial area and musculoskeletal system as to about 6.5. Cells from the respiratory tract have indirect exposure to inhaled acidic mists (which also ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main criteria for diagnosis of RADS include a reversit choline challenge testing, and the lack of minimal ation is an infrequent disorder with rates related t e on contact skin redness, swelling, the production site of contact as well as systemic toxicity. activity, decrease in albumin and decreased grow reated or prolonged exposure to irritants may produce on contact skin redness, swelling, the severe ulceration.
DIBUTYLTIN DIACETATE ACETIC ACID GLACIAL ACETIC ACID GLACIAL ACETIC ACID GLACIAL BUBUTYLTIN DIACETATE & ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & N-PROPANOL METHYLTRIACETOXYSILANE & ACETIC ACID GLACIAL PROPANOL & ACETIC ACID GLACIAL DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL Skin Irritation/Corrosion	<ul> <li>conjunctivitis.</li> <li>The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning i stains around the snout and extremities, salivation, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway.</li> <li>Tests on laboratory cells have not shown methyltriacetox</li> <li>Foetal death and specific developmental abnormalities in recorded.</li> <li>For acid mists, aerosols, vapours</li> <li>Test results suggest that eukaryotic cells are susceptible not been examined in this respect. Mucous secretion may protects the stomach lining from the hydrochloric acid set Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre asthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to severel lymphocytic inflammation, without eosinophilia. RADS (ct the concentration of and duration of exposure to the irritating disorder is characterized by difficulty breathing, cough an The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.</li> <li>Prolonged or repeated exposure to acetic acid may prode prolonged inhalation exposure results in muscle imbalar but no reproductive or foetal toxicity, according to anima.</li> <li>The material may cause severe skin irritation after prolonged or produce severe irritation to the eye ca produce conjunctivitis.</li> <li>The material may cause severe skin irritation of the skin.</li> </ul>	I result in damage to the lung includir in animals include decreased body w issive tear (sometimes coloured) prod d low body temperature. Autopsy sho e to the skin, and corrosive to the eye exysilane to cause mutations or chrom involving the central nervous system, e to genetic damage when the pH fall ay protect the cells of the airway from correted there). In years after exposure to the material b) which can occur after exposure to vious airways disease in a non-atopic imented exposure to the irritant. Othe e bronchial hyperreactivity on methar or asthma) following an irritating inhal ating substance. On the other hand, i i substance (often particles) and is con ind mucus production. I repeated exposure and may produce luce irritation and/ or corrosion at the nece, increase in blood cholinesterase it testing. using pronounced inflammation. Rep inged or repeated exposure and may . Repeated exposures may produce	ng reduced lung function. leight and food intake, labored breathing, rales, reduction, lethargy, irregular gait, hunched posture, weed multiple abnormalities of the stomach. es of animals; as it is broken down by water to accent lossomal aberrations. craniofacial area and musculoskeletal system is to about 6.5. Cells from the respiratory tract have a direct exposure to inhaled acidic mists (which also ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main c individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversit choline challenge testing, and the lack of minimal lation is an infrequent disorder with rates related t industrial bronchitis is a disorder that occurs as a sompletely reversible after exposure ceases. The e on contact skin redness, swelling, the production site of contact as well as systemic toxicity. activity, decrease in albumin and decreased grow meated or prolonged exposure to irritants may produce on contact skin redness, swelling, the severe ulceration.
DIBUTYLTIN DIACETATE ACETIC ACID GLACIAL ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL METHYLTRIACETOXYSILANE & N-PROPANOL METHYLTRIACETOXYSILANE & ACETIC ACID GLACIAL I-PROPANOL & ACETIC ACID GLACIAL DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL DIBUTYLTIN DIACETATE & ACETIC ACID GLACIAL	conjunctivitis. The material may produce respiratory tract irritation, and Clinical signs of acute methyltriacetoxysilane poisoning if stains around the snout and extremities, salivation, exce urination, black/brown anogenital staining, paleness, and Methyltriacetoxysilane is severely irritating and corrosive acid, it is likely to irritate the airway. Tests on laboratory cells have not shown methyltriacetor Foetal death and specific developmental abnormalities in recorded. For acid mists, aerosols, vapours Test results suggest that eukaryotic cells are susceptible not been examined in this respect. Mucous secretion may protects the stomach lining from the hydrochloric acid set Asthma-like symptoms may continue for months or event known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pref asthma-like symptoms within minutes to hours of a docu aifflow pattern on lung function tests, moderate to severed lymphocytic inflammation, without eosinophilia. RADS (of the concentration of and duration of exposure to the irrita- result of exposure due to high concentrations of irritating disorder is characterized by difficulty breathing, cough and The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin. Prolonged or repeated exposure to acetic acid may prod Prolonged inhalation exposure results in muscle imbalar but no reproductive or foetal toxicity, according to anima The material may cause severe skin irritation after prolonged produce conjunctivitis. The material may cause severe skin irritation of the skin. The material may cause severe skin irritation of the skin.	I result in damage to the lung includir in animals include decreased body w issive tear (sometimes coloured) prod d low body temperature. Autopsy sho e to the skin, and corrosive to the eye sysilane to cause mutations or chrom involving the central nervous system, e to genetic damage when the pH fall ay protect the cells of the airway from creted there). In years after exposure to the material b) which can occur after exposure to vious airways disease in a non-atopic mented exposure to the irritant. Othe e bronchial hyperreactivity on methad or asthma) following an irritating inhal ating substance. On the other hand, i g substance (often particles) and is con ind mucus production. I repeated exposure and may produce luce irritation and/ or corrosion at the noe, increase in blood cholinesterase I testing. Using pronounced inflammation. Rep inged or repeated exposure and may . Repeated exposures may produce	ng reduced lung function. leight and food intake, labored breathing, rales, reduction, lethargy, irregular gait, hunched posture, wed multiple abnormalities of the stomach. as of animals; as it is broken down by water to accent to accent a social area and musculoskeletal system a to about 6.5. Cells from the respiratory tract have a direct exposure to inhaled acidic mists (which also ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main c individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversite tholine challenge testing, and the lack of minimal lation is an infrequent disorder that occurs as a completely reversible after exposure ceases. The e on contact skin redness, swelling, the production site of contact as well as systemic toxicity. activity, decrease in albumin and decreased grow produce on contact skin redness, swelling, the severe ulceration.

Legend:

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

## Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
E43	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	>=3.6mg/l	2
methyltriacetoxysilane	LC50	96h	Fish	>=79<=88mg/l	2
	EC50	72h	Algae or other aquatic plants	>3.6mg/l	2
	EC50	48h	Crustacea	65mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	NOEC(ECx)	504h	Crustacea	68.3mg/l	2
	EC50	96h	Algae or other aquatic plants	4480mg/l	4
n-propanol	EC50	72h	Algae or other aquatic plants	3200-5600mg/l	4
	LC50	96h	Fish	3000-4000mg/l	4
	EC50	48h	Crustacea	3339-3977mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	0.035mg/l	2
dibutyltin diacetate	EC50	48h	Crustacea	1.4mg/l	2
	EC50(ECx)	72h	Algae or other aquatic plants	0.035mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50(ECx)	24h	Algae or other aquatic plants	0.08mg/l	2
	EC50	72h	Algae or other aquatic plants	29.23mg/l	2
acetic acid glacial	LC50	96h	Fish	31.3-67.6mg/l	2
	EC50	96h	Algae or other aquatic plants	73.4mg/l	4
	EC50	48h	Crustacea	18.9mg/l	2
Legend:	Ecotox databas		CHA Registered Substances - Ecotoxicological Informa Aquatic Hazard Assessment Data 6. NITE (Japan) - I		

For Acetic Acid: Acetic acid and its salts (the acetates) can be grouped together because of their close structural relationships, their natural occurrence in plants and animals, and their fundamental role in cell metabolism.

Atmospheric Fate: Acetic acid is degraded photochemically in the atmosphere to produce hydroxyl radicals (estimated typical half-life of 22 days). Physical removal of acetates on atmospheric particulates may occur via wet or dry deposition.

Aquatic Fate: Natural water will neutralize dilute solutions of acetic acid. Spills of acetic acid on soil will readily biodegrade - the biodegradation rate for acetic acid after 14 days and under aerobic conditions is 74 days. Acetic acid is not expected to bioconcentrate in aquatic systems. Drinking water standards: none available.

DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methyltriacetoxysilane	HIGH	HIGH
n-propanol	LOW	LOW
dibutyltin diacetate	HIGH	HIGH
acetic acid glacial	LOW	LOW

## **Bioaccumulative potential**

Ingredient	Bioaccumulation
methyltriacetoxysilane	LOW (LogKOW = 0.2467)
n-propanol	LOW (LogKOW = 0.25)
dibutyltin diacetate	LOW (LogKOW = 0.8138)
acetic acid glacial	LOW (LogKOW = -0.17)

# Mobility in soil

Ingredient	Mobility
methyltriacetoxysilane	LOW (KOC = 35.19)
n-propanol	HIGH (KOC = 1.325)
dibutyltin diacetate	LOW (KOC = 283.7)
acetic acid glacial	HIGH (KOC = 1)

#### Waste treatment methods

Product / Packaging disposal
 Recycle wherever possible or consult manufacturer for recycling options.
 Consult State Land Waste Authority for disposal.
 Bury or incinerate residue at an approved site.

Recycle containers if possible, or dispose of in an authorised landfill.

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
methyltriacetoxysilane	Not Available
n-propanol	Not Available
dibutyltin diacetate	Not Available
acetic acid glacial	Not Available

## Transport in bulk in accordance with the IGC Code

Product name	Ship Type
methyltriacetoxysilane	Not Available
n-propanol	Not Available
dibutyltin diacetate	Not Available
acetic acid glacial	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
HSR002544	Construction Products Subsidiary Hazard Group Standard 2020

Chemwatch: 5258-16 Version No: 7.1

HSR Number	Group Standard
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.

methyltriacetoxysilane is found on the following regulatory lists	
New Zealand Approved Hazardous Substances with controls	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification	of Chemicals - Classification Data
of Chemicals	New Zealand Inventory of Chemicals (NZIoC)
n-propanol is found on the following regulatory lists	
New Zealand Approved Hazardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
dibutyltin diacetate is found on the following regulatory lists	
Chemical Footprint Project - Chemicals of High Concern List	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
New Zealand Approved Hazardous Substances with controls	of Chemicals - Classification Data
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification	New Zealand Inventory of Chemicals (NZIoC)
of Chemicals	New Zealand Workplace Exposure Standards (WES)
acetic acid glacial is found on the following regulatory lists	
New Zealand Approved Hazardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
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	Yes
Canada - DSL	Yes

National Inventory	Status	
Canada - NDSL	No (methyltriacetoxysilane; n-propanol; dibutyltin diacetate; acetic acid glacial)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (dibutyltin diacetate)	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

# **SECTION 16 Other information**

Revision Date	17/03/2023
Initial Date	20/06/2017

## **SDS Version Summary**

Version	Date of Update	Sections Updated
5.1	23/12/2022	Classification review due to GHS Revision change.
7.1	17/03/2023	Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Synonyms, Name

## 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.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.