

# **SC94 COATING BARNES PRODUCTS PTY LTD**

Chemwatch: 5449-58 Version No: 3.1

Chemwatch Hazard Alert Code: 2

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

Issue Date: 17/03/2023 Print Date: 19/06/2023 S.GHS.NZL.EN.E

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

## **Product Identifier**

Product name	C94 COATING	
Chemical Name	Applicable	
Synonyms	SC-94 SEMI-GLOSS SINGLE COMPONENT COATING	
Chemical formula	Not Applicable	
Other means of identification	n Not Available	

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

Polyurethane coatings. Relevant identified 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	REENHILLS AVE MOOREBANK NSW 2170 Australia	
Telephone	es 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	arnes NZ +649 9731 816 - Monday-Thursday 9am-5pm Friday 9am-4.30pm	
Other emergency telephone numbers		

# **SECTION 2 Hazards identification**

## Classification of the substance or mixture

Classification <sup>[1]</sup> Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1		
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex	
Determined by Chemwatch using GHS/HSNO criteria 6.3A, 8.3A, 6.5B (contact)		

# Label elements

Hazard pictogram(s)	
Signal word	Danger

## Hazard statement(s)

H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	

# Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.
F 200	wear protective gloves, protective clothing, eye protection and face protection.

P261	Avoid breathing mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

# Precautionary statement(s) Response

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	nediately call a POISON CENTER/doctor/physician/first aider.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P333+P313	If skin irritation or rash 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

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
67700-43-0	>60	TDI (mixed isomers)/ castor oil copolymer
577-11-7	1-5	sodium dioctyl sulfosuccinate
108-01-0	0.1-1	dimethylethanolamine
Not Available	balance	Ingredients determined not to be hazardous
Legend:	1. Classified by Chemwatch; 2. C 4. Classification drawn from C&L	lassification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; * EU IOELVs available

# **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>Immediately hold eyelids apart and flush the eye continuously with 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>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</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> <li>Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

For sub-chronic and chronic exposures to isocyanates:

- This material may be a potent pulmonary sensitiser which causes bronchospasm even in patients without prior airway hyperreactivity.
- Clinical symptoms of exposure involve mucosal irritation of respiratory and gastrointestinal tracts.
- Conjunctival irritation, skin inflammation (erythema, pain vesiculation) and gastrointestinal disturbances occur soon after exposure.
- Pulmonary symptoms include cough, burning, substernal pain and dyspnoea.
- Some cross-sensitivity occurs between different isocyanates.
- Noncardiogenic pulmonary oedema and bronchospasm are the most serious consequences of exposure. Markedly symptomatic patients should receive oxygen, ventilatory support and an intravenous line.
- Treatment for asthma includes inhaled sympathomimetics (epinephrine [adrenalin], terbutaline) and steroids.
- Activated charcoal (1 g/kg) and a cathartic (sorbitol, magnesium citrate) may be useful for ingestion.
- Mydriatics, systemic analgesics and topical antibiotics (Sulamyd) may be used for corneal abrasions.
- There is no effective therapy for sensitised workers.

[Ellenhorn and Barceloux; Medical Toxicology]

NOTE: Isocyanates cause airway restriction in naive individuals with the degree of response dependant on the concentration and duration of exposure. They induce smooth muscle contraction which leads to bronchoconstrictive episodes. Acute changes in lung function, such as decreased FEV1, may not represent sensitivity. [Karol & Jin, Frontiers in Molecular Toxicology, pp 56-61, 1992]

Personnel who work with isocyanates, isocyanate prepolymers or polyisocyanates should have a pre-placement medical examination and periodic examinations thereafter, including a pulmonary function test. Anyone with a medical history of chronic respiratory disease, asthmatic or bronchial attacks, indications of allergic responses, recurrent eczema or sensitisation conditions of the skin should not handle or work with isocyanates. Anyone who develops chronic respiratory distress when working with isocyanates should be removed from exposure and examined by a physician. Further exposure must be avoided if a sensitivity to isocyanates or polyisocyanates has developed.

# **SECTION 5 Firefighting measures**

# Extinguishing media

- Small quantities of water in contact with hot liquid may react violently with generation of a large volume of rapidly expanding hot sticky semi-solid foam.
- Presents additional hazard when fire fighting in a confined space.
- Cooling with flooding quantities of water reduces this risk
- Water spray or fog may cause frothing and should be used in large quantities.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
e for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> </ul>
Fire/Explosion Hazard	Cool fire exposed containers with water spray from a protected location. rurethane polymer is a combustible material which may be ignited if exposed to an open flame. Decomposition from fire can produce ificant amounts of carbon monoxide and hydrogen cyanide, in addition to nitrogen oxides, isocyanates, and other toxic products. Because flammability of the material, it may to be treated with flame retardants , almost all of which are considered harmful. Imbustible. oberate fire hazard when exposed to heat or flame. nen heated to high temperatures decomposes rapidly generating vapour which pressures and may then rupture containers with release of imable and highly toxic isocyanate vapour. Irrns with acrid black smoke and poisonous fumes. le to reaction with water producing CO2-gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. mbustion products include: oon dioxide (CO2) yanates minor amounts of rogen cyanide gen oxides (NOx) ur oxides (SOx) er pyrolysis products typical of burning organic material. er emit corrosive fumes. an heated at high temperatures many isocyanates decompose rapidly generating a vapour which pressurises containers, possibly to the pre-

# **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

<ul> <li>Liquid Isocyanates and high isocyanate vapour concentrations will penetrate seals on self contained breathing apparatus - SCBA should be used inside encapsulating suit where this exposure may occur.</li> <li>For isocyanate spills of less than 40 litres (2 m2):</li> <li>Evacuate area from everybody not dealing with the emergency, keep them upwind and prevent further access, remove ignition sources and, if inside building, ventilate area as well as possible.</li> <li>Notify supervision and others as necessary.</li> <li>Put on personal protective equipment (suitable respiratory protection, face and eye protection, protective suit, gloves and impermeable boots).</li> <li>Control source of leakage (where applicable).</li> <li>Dike the spill to prevent spreading and to contain additions of decontaminating solution.</li> <li>Prevent the material from entering drains.</li> <li>Estimate spill pool volume or area.</li> <li>Avoid contamination with water, alkalies and detergent solutions.</li> <li>Material reacts with water and generates gas, pressurises containers with even drum rupture resulting.</li> <li>DO NOT reseal containers for contamination is suspected.</li> <li>Open all containers with care.</li> </ul>	Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
	Major Spills	<ul> <li>used inside encapsulating suit where this exposure may occur.</li> <li>For isocyanate spills of less than 40 litres (2 m2):</li> <li>Evacuate area from everybody not dealing with the emergency, keep them upwind and prevent further access, remove ignition sources and, if inside building, ventilate area as well as possible.</li> <li>Notify supervision and others as necessary.</li> <li>Put on personal protective equipment (suitable respiratory protection, face and eye protection, protective suit, gloves and impermeable boots).</li> <li>Control source of leakage (where applicable).</li> <li>Dike the spill to prevent spreading and to contain additions of decontaminating solution.</li> <li>Prevent the material from entering drains.</li> <li>Estimate spill pol volume or area.</li> <li>Avoid contamination with water, alkalies and detergent solutions.</li> <li>Material reacts with water and generates gas, pressurises containers with even drum rupture resulting.</li> <li>DO NOT reseal container if contamination is suspected.</li> </ul>

DO NOT touch the spill material
Moderate hazard.
<ul> <li>Clear area of personnel and move upwind.</li> </ul>
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	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> </ul>
Other information	Consider storage under inert gas. for commercial quantities of isocyanates: · Isocyanates should be stored in adequately bunded areas. Nothing else should be kept within the same bunding. Pre-polymers need not be segregated. Drums of isocyanates should be stored under cover, out of direct sunlight, protected from rain, protected from physical damage and well away from moisture, acids and alkalis. · Where isocyanates are stored at elevated temperatures to prevent solidifying, adequate controls should be installed to prevent the high temperatures and precautions against fire should be taken. · Where stored in tanks, the more reactive isocyanates should be blanketed with a non-reactive gas such as nitrogen and equipped with absorptive type breather valve (to prevent vapour emissions) · Transfer systems for isocyanates in bulk storage should be fully enclosed and use pump or vacuum systems. · 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	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Water.</li> <li>▶ Avoid reaction with oxidising agents, bases and strong reducing agents.</li> <li>▶ Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</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 Exposure Standards (WES)	TDI (mixed isomers)/ castor oil copolymer	וסד	0.02 mg/m3	0.07 mg/m3	Not Available	(dsen) - Dermal sensitiser (rsen) - Respiratory sensitiser (ifv) - The Inhalable Fraction and Vapour (ifv) notation is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases, with each contributing to a significant portion of exposure
New Zealand Workplace Exposure Standards (WES)	TDI (mixed isomers)/ castor oil copolymer	lsocyanates, all, (as -NCO)	s 0.02 mg/m3	0.07 mg/m3	Not Available	(dsen) - Dermal sensitiser (rsen) - Respiratory sensitiser (ifv) - The Inhalable Fraction and Vapour (ifv) notation is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases, with each contributing to a significant portion of exposure
New Zealand Workplace Exposure Standards (WES)	dimethylethanolamine	Dimethylaminoetha	2 ppm / nol 7.4 mg/m3	22 mg/m3 / 6 ppm	Not Available	Not Available
Emergency Limits						
Ingredient	TEEL-1		TEEL-2			TEEL-3

# sodium dioctyl sulfosuccinate5.7 mg/m363 mg/m3380 mg/m3dimethylethanolamine3.7 ppm40 ppm72 ppm

Original IDLH

Revised IDLH

Ingredient

Original IDLH

# **SC94 COATING**

Revised IDLH

nigreatent	original DET			
TDI (mixed isomers)/ castor oil copolymer	Not Available	Not Available		
sodium dioctyl sulfosuccinate	Not Available	Not Available		
dimethylethanolamine	Not Available	Not Available		
Occupational Exposure Banding				
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
sodium dioctyl sulfosuccinate	E	≤ 0.01 mg/m <sup>3</sup>		
Notes:	Occupational exposure banding is a process of assigning chemicals into adverse health outcomes associated with exposure. The output of this pr range of exposure concentrations that are expected to protect worker he	rocess is an occupational exposure band (OEB), which corresponds to a		
xposure controls				
Appropriate engineering controls	<ul> <li>standards.</li> <li>If total enclosure of the process is not feasible, local exhaust ventilat molecular weight isocyanates (such as TDI or HDI) is used or where</li> </ul>	e used to keep atmospheric concentrations below the relevant exposure isocyanate or polyurethane is sprayed. lation cannot occur, local exhaust ventilation may not be necessary if the standards. not be vented to the exterior in such a manner as to create a hazard. veen the worker and the hazard. Well-designed engineering controls can to forwrker interactions to provide this high level of protection. s is done to reduce the risk. Izard "physically" away from the worker and ventilation that strategically e or dilute an air contaminant if designed properly. The design of a ntaminant in use.		
Individual protection measures, such as personal protective equipment				
Eye and face protection	and adsorption for the class of chemicals in use and an account of ir	absorb and concentrate irritants. A written policy document, describing th workplace or task. This should include a review of lens absorption njury experience. Medical and first-aid personnel should be trained in the event of chemical exposure, begin eye irrigation immediately and		
Skin protection	See Hand protection below			
Hands/feet protection	<ul> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individual equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands at the selection of suitable gloves does not only depend on the material, but manufacturer. Where the chemical is a preparation of several substances and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must of washed and dried thoroughly. Application of a non-perfumed moisturiser</li> <li>Do NOT wear natural rubber (latex gloves).</li> <li>Isocyanate resistant materials include Teflon, Viton, nitrile rubber and</li> <li>Protective gloves and overalls should be worn as specified in the applet. NOTE: Natural rubber, neoprene, PVC can be affected by isocyanate</li> <li>Do NOT use skin cream unless necessary and then use only minimated particulation.</li> </ul>	should be removed and destroyed. It also on further marks of quality which vary from manufacturer to s, the resistance of the glove material can not be calculated in advance a manufacturer of the protective gloves and has to be observed when nly be worn on clean hands. After using gloves, hands should be is recommended. d some PVA gloves. propriate national standard. t be re-used until they have been decontaminated. es um amount.		
Body protection	See Other protection below			
Body protection	All employees working with isocyanates must be informed of the hazards prevent damage to their health. They should be made aware of the need produced and of the importance of the proper use of all safeguards and	to carry out their work so that as little contamination as possible is		

 Other protection
 both in the proper execution of the task and in the use of all associated engineering controls, as well as of any personal protective equipment, is essential.

 Employees exposed to contamination hazards should be educated in the need for, and proper use of, facilities, clothing and equipment and thereby maintain a high standard of personal cleanliness. Special attention should be given to ensuring that all personnel understand instructions, especially newly recruited employees and those with local-language difficulties, where they are known.

produced, and of the importance of the proper use of all safeguards against exposure to themselves and their fellow workers. Adequate training,

**Respiratory 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:

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

## "Forsberg Clothing Performance Index".

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

SC94 COATING

Material	CPI
BUTYL	А
NATURAL RUBBER	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.

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

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

### ^ - Full-face

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

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

For spraying or operations which might generate aerosols:

Full face respirator with supplied air.

- In certain circumstances, personal protection of the individual employee is necessary. Personal protective devices should be regarded as being supplementary to substitution and engineering control and should not be used in preference to them as they do nothing to eliminate the hazard.
- However, in some situations, minimising exposure to isocyanates by enclosure and ventilation is not possible, and occupational exposure standards may be exceeded, particularly during on-site mixing of paints, spray-painting, foaming and maintenance of machine and ventilation systems. In these situations, air-line respirators or self-contained breathing apparatus complying with the appropriate nationals standard must be used.
- Organic vapour respirators with particulate pre- filters and powered, air-purifying respirators are NOT suitable.
- Personal protective equipment must be appropriately selected, individually fitted and workers trained in their correct use and maintenance. Personal protective equipment must be regularly checked and maintained to ensure that the worker is being protected.
- Air- line respirators or self-contained breathing apparatus complying with the appropriate national standard should be used during the clean-up of spills and the repair or clean-up of contaminated equipment and similar situations which cause emergency exposures to hazardous atmospheric concentrations of isocyanate.

# **SECTION 9** Physical and chemical properties

Information on basic physical and chemical properties

Appearance	White liquid with a slight odour; mixes	s with water.	
Physical state	Liquid	Relative density (Water = 1)	1.05
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	8.8	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	150
nitial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>93.3 (PMCC)	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	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	4.2

# SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

## Information on toxicological effects There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation hazard is increased at higher temperatures. The vapour/mist may be highly irritating to the upper respiratory tract and lungs; the response may be severe enough to produce bronchitis and pulmonary oedema. Possible neurological symptoms arising from isocyanate exposure include headache, insomnia, euphoria, ataxia, anxiety Inhaled neurosis, depression and paranoia. Gastrointestinal disturbances are characterised by nausea and vomiting. Pulmonary sensitisation may produce asthmatic reactions ranging from minor breathing difficulties to severe allergic attacks; this may occur following a single acute exposure or may develop without warning for several hours after exposure. Sensitized people can react to very low doses, and should not be allowed to work in situations allowing exposure to this material. Continued exposure of sensitised persons may lead to possible long term respiratory impairment. Inhalation hazard is increased at higher temperatures. High molecular weight material; on single acute exposure would be expected to pass through gastrointestinal tract with little change / absorption. Indestion Occasionally accumulation of the solid material within the alimentary tract may result in formation of a bezoar (concretion), producing discomfort. 51r22?\$ This material can cause inflammation of the skin on contact in some persons. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Skin Contact 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 If applied to the eyes, this material causes severe eye damage Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Fully reacted polyurethane polymer is chemically inert. No exposure limits have been established in the U.S. by OSHA (Occupational Safety and Health Administration) or ACGIH (American Conference of Governmental Industrial Hygienists). It is not regulated by OSHA for carcinogenicity. Liquid resin blends containing residual isocyanates may contain hazardous or regulated components. Isocyanates are known skin and respiratory sensitizers. Additionally, amines, glycols, and phosphate present in spray polyurethane foams present risks. The oral administration of polyurethane particles at 5 and 10 mg/kg/day for 10 days generated an inflammation response in mice. This product contains a polymer with a functional group considered to be of high concern. Isothiocyanates may cause hypersensitivity of the skin and airways. Persons with a history of asthma or other respiratory problems or are known to be sensitised, should not be engaged in any work involving the Chronic handling of isocyanates The chemistry of reaction of isocyanates, as evidenced by MDI, in biological milieu is such that in the event of a true exposure of small MDI doses to the mouth, reactions will commence at once with biological macromolecules in the buccal region and will continue along the digestive tract prior to reaching the stomach. Reaction products will be a variety of polyureas and macromolecular conjugates with for example mucus, proteins and cell components. This is corroborated by the results from an MDI inhalation study. Following an inhalation exposure of rats to radiolabelled MDI, 79% of the dose was excreted in faeces. The faecal excretion in these animals was considered entirely due to ingestion of radioactivity from grooming and ingestion of deposited material from the nasopharangeal region via the mucociliary escalator, i.e. not following systemic absorption. The faecal radioactivity was tentatively identified as mixed molecular weight polyureas derived from MDI. Animal testing shows that polymeric MDI can damage the nasal cavities and lungs, causing inflammation.and increased cell growth. CONTAINS free organic isocyanate. Mixing and application requires special precautions and use of personal protective gear [APMF] ΤΟΧΙΟΙΤΥ IRRITATION SC94 COATING Not Available Not Available TOXICITY IRRITATION TDI (mixed isomers)/ castor oil copolyme Not Available Not Available TOXICITY IRRITATION Dermal (rabbit) LD50: 2525 mg/kg<sup>[1]</sup> Eye (rabbit): 0.250 mg - mild Oral (Rat) LD50: >1320 mg/kg<sup>[1]</sup> Eye (rabbit): 1% - SEVERE sodium dioctvl sulfosuccinate Eye: adverse effect observed (irritating)<sup>[1]</sup> Skin (rabbit): 10 mg/24h-moderate Skin: adverse effect observed (irritating)<sup>[1]</sup>

	ΤΟΧΙΟΙΤΥ	IRRITATION				
	Dermal (rabbit) LD50: 1219 mg/kg <sup>[1]</sup>	Eye (rabbit):0.75 mg(open)-SEVERE				
dimethylethanolamine	Inhalation(Mouse) LC50; 3.25 mg/L4h <sup>[2]</sup>	Skin (rabbit): 445 mg(open)-mild				
	Oral (Rat) LD50: 1182.7 mg/kg <sup>[1]</sup>					
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise					
	specified data extracted from RTECS - Register of Toxic Effect of chem					
TDI (MIXED ISOMERS)/ CASTOR OIL COPOLYMER	eczema involves a cell-mediated (T lymphocytes) immune reaction of t involve antibody-mediated immune reactions. The significance of the c distribution of the substance and the opportunities for contact with it ar distributed can be a more important allergen than one with stronger se clinical point of view, substances are noteworthy if they produce an alle No significant acute toxicological data identified in literature search. Isocyanate vapours are irritating to the airways and can cause their infi	e rarely as urticaria or Quincke's oedema. The pathogenesis of contact the delayed type. Other allergic skin reactions, e.g. contact urticaria, contact allergen is not simply determined by its sensitisation potential: the e equally important. A weakly sensitising substance which is widely insitising potential with which few individuals come into contact. From a ergic test reaction in more than 1% of the persons tested.				
SODIUM DIOCTYL SULFOSUCCINATE	for dialkyl sodium sulfosuccinates: The existing data on diethylhexyl sodium sulfosuccinate are thought to diesters of similar alkyl chain length, which are symmetrically substitute Numerous studies examining the effect of the oral administration of die reproductive and developmental toxicity in rats were performed, one st test substance containing 0.4% (w/v) diethylhexyl sodium sulfosuccina and rats was 400 mg/kg bw. In another developmental toxicity study in containing 0.4% (w/v) diethylhexyl sodium sulfosuccinate. In a study in 2% diethylhexyl sodium sulfosuccinate, no adverse effects on materna test group, significant incidences of resorptions and gross abnormalitie associated skeletal defects, were reported. The NOAEL for maternal to In contrast to oral exposure, these esters are not expected to absorb th observed in test animals orally exposed to diethylhexyl sodium sulfosu these ingredients. Consistent with this view, the Cosmetics Ingredient Review (CIR) Expe sulfosuccinate was quite low, with a dermal LD50 of >10 g/kg in rabbit. ingredients through the skin. Under the exaggerated exposure conditions of the two repeated insult earlier safety assessment of sodium diethylhexyl sulfosuccinate, the im Diethylhexyl sodium sulfosuccinate was used as a positive control in a severely irritating to rabbit eyes, inducing perforated damages. Metabolism and excretion studies have given mixed results on the prim appear that diethylhexyl sodium sulfosuccinate is metabolized prior to For alkyl sulfates; alkane sulfonates and alpha-olefin sulfonates Most chemicals of this category are not defined substances, but mixtur biological pathways result in structurally similar breakdown products, a environmental behavior and essentially identical hazard profiles with re Acute toxicity: These substances are well absorbed after ingestion; per chemicals are distributed mainly to the liver. In animals, signs of poisoning by mouth include lethargy, hair standing from skin contact caused irritation, tremor, tonic-clonic convulsions,	ethylhexyl sodium sulfosuccinate, both dietary and by gavage, on the tudy was performed in mice. In a developmental study in mice and rats of a te, the NOAEL for maternal toxicity and teratogenic effects for both mice a rats, the parental NOAEL was 400 mg/kg bw for a test substance in which gravid female Sprague-Dawley rats were fed a diet containing up to all or fetal parameters were observed in the 1% test group, but in the 2% es, primarily exencephaly and, at times, spina bifida, anophthalmia, and poxicity and teratogenic effects was 1%. Inhrough the skin to any significant extent, and the reproductive effects recinate are not likely effects of topical application of cosmetics containing ert Panel:noted that acute dermal toxicity of undiluted diethylhexyl sodium . However dialkyl sulfosuccinate salts may enhance the penetration of other patch tests (RIPTs; continuous occlusive patch testing) presented in an igredient is a cumulative irritant, though not a sensitizer. . Draize ocular irritation study; 10% diethylhexyl sodium sulfosuccinate was nary route of excretion of diethylhexyl sodium sulfosuccinate; it does excretion, and most of the dose is excreted within 24 h of dosing. res of homologues with different alkyl side chains. Common physical and/or ind are, together with the surfactant properties, responsible for similar egard to human health. netration through the skin is however, poor. After absorption, these up, decreased motor activity and breathing rate, and diarrhea. Poisoning eathing failure, and weight loss. The C-12-akyl sulfate sodium salt caused % concentration were severely irritating and produced irreversible effects				
DIMETHYLETHANOLAMINE	Asthma-like symptoms may continue for months or even years after ex known as reactive airways dysfunction syndrome (RADS) which can or criteria for diagnosing RADS include the absence of previous airways of asthma-like symptoms within minutes to hours of a documented exposs airflow pattern on lung function tests, moderate to severe bronchial hyp lymphocytic inflammation, without eosinophilia. RADS (or asthma) follo the concentration of and duration of exposure to the irritating substance result of exposure due to high concentrations of irritating substance (of disorder is characterized by difficulty breathing, cough and mucus proc Overexposure to most of these materials may cause adverse health ef Many amine-based compounds can cause release of histamines, whic constriction of the bronchi or asthma and inflammation of the cavity of i anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddeni transient. There are generally four routes of possible or potential exposure: inhal Inhalation: Inhaling vapours may result in moderate to severe irritation concentrations of certain amines can produce severe respiratory irritati breathing and chest pain. Chronic exposure via inhalation may cause <i>k</i> bronchi and lungs, and possible lung damage. Repeated and/or prolon liver enlargement. Some amines have been shown to cause kidney, bli While most polyurethane amine catalysts are not sensitisers, some cert distress while breathing, including asthma-like attacks, whenever they sensitized, these individuals must avoid any further exposure to amine Lower doses of dimethylethanolamine (DMAE) produce a gradual incre susceptible individuals. Larger doses produced sleeplessness, spontar oral secretions, difficulty in breathing, and respiratory failure have beer	disease in a non-atopic individual, with sudden onset of persistent sure to the irritant. Other criteria for diagnosis of RADS include a reversible perreactivity on methacholine challenge testing, and the lack of minimal owing an irritating inhalation is an infrequent disorder with rates related to te. On the other hand, industrial bronchitis is a disorder that occurs as a ften particles) and is completely reversible after exposure ceases. The duction. fects. th, in turn, can trigger allergic and other physiological effects, including the nose. Whole-body symptoms include headache, nausea, faintness, ing of the skin, urticaria (hives) and swelling of the face, which are usually lation, skin contact, eye contact, and swallowing. of the tissues of the nose and throat and can irritate the lungs. Higher ion, characterized by discharge from the nose, coughing, difficulty in headache, nausea, vomiting, drowsiness, sore throat, inflammation of the iged exposure to some amines may result in liver disorders, jaundice and ood and central nervous system disorders in animal studies. rtain individuals may also become sensitized to amines and my experience are subsequently exposed to even very small amounts of vapours. Once				

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may SODIUM DIOCTYL produce conjunctivitis SULFOSUCCINATE & The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of DIMETHYLETHANOLAMINE vesicles, scaling and thickening of the skin. Acute Toxicity × Carcinogenicity × -× Skin Irritation/Corrosion Reproductivity Serious Eye Damage/Irritation ~ STOT - Single Exposure × **Respiratory or Skin** ~ × STOT - Repeated Exposure sensitisation

Legend:

Aspiration Hazard

X

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

# **SECTION 12 Ecological information**

Mutagenicity

×

## Toxicity

SC94 COATING	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
DI (mixed isomers)/ castor oil copolymer	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
sodium dioctyl sulfosuccinate	BCF	1008h	Fish	<0.9	7
	NOEC(ECx)	96h	Fish	0.059mg/l	4
	EC50	72h	Algae or other aquatic plants	38.1-40.8mg/l	4
	LC50	96h	Fish	12.5mg/l	1
	EC50	48h	Crustacea	6.6mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	88-131mg/l	1
dimethylethanolamine	EC50	72h	Algae or other aquatic plants	35mg/l	1
	EC50	48h	Crustacea	98.77mg/l	1
	EC0(ECx)	48h	Crustacea	62.5mg/l	1

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

For high molecular weight synthetic polymers: (according to the Sustainable Futures (SF) program (U.S. EPA 2005b; U.S. EPA 2012c) polymer assessment guidance.) High MW polymers are expected:

· to have low vapour pressure and are not expected to undergo volatilization .

· to adsorb strongly to soil and sediment

• to be non-biodegradable (not anticipated to be assimilated by microorganisms.- therefore, biodegradation is not expected to be an important removal process. However many exceptions exist

High MW polymers are not expected to undergo removal by other degradative processes under environmental conditions

for polyisocyanates:

Polyisocyanates are not readily biodegradable. However, due to other elimination mechanisms (hydrolysis, adsorption), long retention times in water are not to be expected. The resulting polyurea is more or less inert and, due to its molecular size, not bioavailable. Within the limits of water solubility, polyisocyanates have a low to moderate toxicity for aquatic organisms.

For Surfactants: Kow cannot be easily determined due to hydrophilic/hydrophobic properties of the molecules in surfactants. BCF value: 1-350.

Aquatic Fate: Surfactants tend to accumulate at the interface of the air with water and are not extracted into one or the other liquid phases.

Terrestrial Fate: Anionic surfactants are not appreciably sorbed by inorganic solids. Cationic surfactants are strongly sorbed by solids, particularly clays. Significant sorption of anionic and non-ionic surfactants has been observed in activated sludge and organic river sediments. Surfactants have been shown to improve water infiltration into soils with moderate to severe hydrophobic or water-repellent properties.

For Isocyanate Monomers:

Environmental Fate: Isocyanates, (di- and polyfunctional isocyanates), are commonly used to make various polymers, such as polyurethanes. Polyurethanes find significant application in the manufacture of rigid and flexible foams. They are also used in the production of adhesives, elastomers, and coatings.

Atmospheric Fate: These substances are not expected to be removed from the air via precipitation washout or dry deposition.

Terrestrial Fate: These substances are expected to sorb strongly to soil. Migration to groundwater and surface waters is not expected to occur.

Aquatic Fate: Breakdown by water, (hydrolysis), is the primary fate mechanism for the majority of commercial isocyanate monomers, however; the low solubility of these substances will generally lessen the effectiveness of hydrolysis as a fate pathway.

DO NOT discharge into sewer or waterways

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dimethylethanolamine	LOW	LOW

## **Bioaccumulative potential**

Ingredient

Bioaccumulation

Continued...

Ingredient	Bioaccumulation
sodium dioctyl sulfosuccinate	LOW (BCF = 3.78)
dimethylethanolamine	LOW (LogKOW = -0.9351)
Mobility in soil	
Ingredient	Mobility
dimethylethanolamine	HIGH (KOC = 1.602)

# **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise: <ul> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction</li> <li>Recuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</li> <li><b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li><b>DO NOT</b> recycle spilled material.</li> <li>Neutralise spill material carefully and decontaminate empty containers and spill residues with 10% ammonia solution plus detergent or a proprietary decontaminant prior to disposal.</li> <li>Neutralises as all os supper drums being decontaminate empty containers and spill residues with 10% am</li></ul></li></ul>

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

## **Disposal Requirements**

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

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

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

# **SECTION 14 Transport information**

I	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
TDI (mixed isomers)/ castor oil copolymer	Not Available
sodium dioctyl sulfosuccinate	Not Available
dimethylethanolamine	Not Available

# Transport in bulk in accordance with the IGC Code

Product name	Ship Type
TDI (mixed isomers)/ castor oil	Not Available

Product name	Ship Type
copolymer	
sodium dioctyl sulfosuccinate	Not Available
dimethylethanolamine	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
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
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.

# TDI (mixed isomers)/ castor oil copolymer is found on the following regulatory lists New Zealand Inventory of Chemicals (NZIoC)

sodium dioctyl sulfosuccinate is found on the following regulatory lists

New Zealand Hazardous Substances and New Organisms (HSNO)  $\mbox{Act}$  - Classification of Chemicals

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

## dimethylethanolamine is found on the following regulatory lists

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

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

# **Hazardous Substance Location**

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

Hazard Class	Quantities
Not Applicable	Not Applicable

New Zealand Workplace Exposure Standards (WES)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

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

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

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

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

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

# **Tracking Requirements**

Not Applicable

# **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (TDI (mixed isomers)/ castor oil copolymer; sodium dioctyl sulfosuccinate; dimethylethanolamine)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	No (TDI (mixed isomers)/ castor oil copolymer)	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (TDI (mixed isomers)/ castor oil copolymer)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (TDI (mixed isomers)/ castor oil copolymer)	
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	03/02/2021

## SDS Version Summary

Version	Date of Update	Sections Updated
3.1	17/03/2023	Identification of the substance / mixture and of the company / undertaking - Supplier Information, 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

end of SDS

ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZICC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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