Altex Coatings Ltd

Version No: 9.13

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

Chemwatch Hazard Alert Code: 2

Issue Date: 14/02/2023 Print Date: 14/02/2023 S.GHS.NZL.EN

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

Product Identifier		
Product name	Nullifire SC902 Part A	
Synonyms	Not Available	
Other means of identification	Not Available	

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

Relevant identified uses	Part A of a two pack industrial coating

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Altex Coatings Ltd	
Address	91-111 Oropi Road Tauranga 3112 New Zealand	
Telephone	+64 7 541 1221	
Fax	+64 7 541 1310	
Website	www.altexcoatings.com	
Email	neil.debenham@carboline.co.nz	

Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.		
Classification ^[1]	Flammable Liquids Category 3, Specific Target Organ Toxicity - Repeated Exposure Category 2, Reproductive Toxicity Category 2, Carcinogenicity Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements



Signal word Warning

Hazard	statement(s)
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Trazila Gratemon(6)		
H226	Flammable liquid and vapour.	
H373	May cause damage to organs through prolonged or repeated exposure. (hearing organs, Urinary tract)	
H361	Suspected of damaging fertility or the unborn child.	
H351	Suspected of causing cancer.	

Precautionary statement(s) Prevention

P210	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P280	Wear protective gloves and protective clothing.	
P240	Ground and bond container and receiving equipment.	

P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.	
P242	Use non-sparking tools.	
P243	Take action to prevent static discharges.	

Precautionary statement(s) Response

	-	
P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
P314	Get medical advice/attention if you feel unwell.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary statement(s) Disposal

P501

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

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1330-20-7	5-10	xylene
100-41-4	1-5	ethylbenzene
108-78-1	10-20	melamine
28553-12-0	1-5	diisononyl phthalate
Legend:	 Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; Classification drawn from C&L * EU IOELVs available 	

SECTION 4 First aid measures

Description of first aid measures If this product comes in contact with eves: Wash out immediately with water. Eye Contact If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin or hair contact occurs: Skin Contact Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes, aerosols or combustion products are inhaled remove from contaminated area. Inhalation Other measures are usually unnecessary. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Ingestion Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. • Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol.

Indication of any immediate medical attention and special treatment needed

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

Continued...

Advice for firefighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	 Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOX) other pyrolysis products typical of burning organic material. May emit poisonous 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	 Environmental hazard - contain spillage. Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
Major Spills	 Environmental hazard - contain spillage. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and sea in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regulary checked against established exposure standards to ensure safe working conditions are maintained.

Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.
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Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. 			
Storage incompatibility				



X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

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)	xylene	Dimethylbenzene	50 ppm / 217 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	ethylbenzene	Ethyl benzene	20 ppm / 88 mg/m3	176 mg/m3 / 40 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	diisononyl phthalate	Diisononyl phthalate	5 mg/m3	Not Available	Not Available	Not Available

Exposure controls

	Engineering controls are used to remove a hazard or place be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job acti Enclosure and/or isolation of emission source which keeps 'adds' and 'removes' air in the work environment. Ventilatio ventilation system must match the particular process and c Employers may need to use multiple types of controls to pr	e independent of worker interaction vity or process is done to reduce th a selected hazard 'physically' awa n can remove or dilute an air conta hemical or contaminant in use.	ns to provide this high level ne risk. y from the worker and vent	of protection. ilation that strategicall
	Local exhaust ventilation usually required. If risk of overexp protection. Supplied-air type respirator may be required in a An approved self contained breathing apparatus (SCBA) m Provide adequate ventilation in warehouse or closed storag velocities which, in turn, determine the 'capture velocities' of	special circumstances. Correct fit is ay be required in some situations. ge area. Air contaminants generate	s essential to ensure adequed in the workplace possess	ate protection.
	Type of Contaminant:			
riate engineering	solvent, vapours, degreasing etc., evaporating from tank (in still air).			
controls	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)			0.5-1 m/s (100-20 f/min.)
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)			1-2.5 m/s (200-50 f/min.)
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).			2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:			- '
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases

	with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.
Personal protection	
Eye and face protection	 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, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hyginer is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfurmed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: trequency and durability of glove material. glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. So when breakthrough time + 20 min Goor when breakthrough time + 20 min Por when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance o a specific chemical, as the permeation efficiency of the glove will be dependent on the seat composition of the glove manufacturers, the glove specific
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

Forsberg Clothing Performance Index'. The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Nullifire SC902 Part A

Material	CPI
TEFLON	A
VITON	A
BUTYL	С
BUTYL/NEOPRENE	С

Respiratory protection

Type A-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	Half-Face	Full-Face	Powered Air
Protection Factor	Respirator	Respirator	Respirator
up to 10 x ES	A-AUS P2		A-PAPR-AUS / Class 1 P2

HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	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

up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

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

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

Appearance	white viscous liquid		
Physical state	Liquid	Relative density (Water = 1)	1.55
		Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	500
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	137	Molecular weight (g/mol)	Not Available
Flash point (°C)	39		
Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available
Flammability	Flammable.	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		
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	248.00

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

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Serious Eye Damage/Irritation

Respiratory or Skin sensitisation

Mutagenicity

nformation on toxicological e	ffects				
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. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.				
Ingestion	The material has NOT been classified by EC I corroborating animal or human evidence.	Directives or other o	classification systems as	'harmful by ing	gestion'. This is because of the lack of
Skin Contact	The material is not thought to produce adverse models). Nevertheless, good hygiene practice setting. Open cuts, abraded or irritated skin should not Entry into the blood-stream, through, for exam prior to the use of the material and ensure that	requires that expose t be exposed to this ple, cuts, abrasions	sure be kept to a minimu s material s or lesions, may produce	m and that sui	table gloves be used in an occupational
Eye	Although the liquid is not thought to be an irrita characterised by tearing or conjunctival redness			ontact with the	eye may produce transient discomfort
Chronic	Long-term exposure to the product is not thoug models); nevertheless exposure by all routes s There has been concern that this material can	should be minimise	d as a matter of course.		
	ΤΟΧΙΟΙΤΥ		IRRITATION		
Nullifire SC902 Part A	Not Available		Not Available		
	ΤΟΧΙCITY		IRRITATION		
	Dermal (rabbit) LD50: >1700 mg/kg ^[2] Eye (human): 200 ppm irritant		opm irritant		
	Inhalation(Rat) LC50: 5000 ppm4h ^[2]			Eye (rabbit): 5 mg/24h SEVERE	
xylene	Oral (Mouse) LD50; 2119 mg/kg ^[2]			Eye (rabbit): 87 mg mild	
			Eye: adverse effect		ating) ^[1]
			Skin (rabbit):500 mg		
			Skin: adverse effect	t observed (irri	tating) ^[1]
	ΤΟΧΙCΙΤΥ		IRRITATION		
	Dermal (rabbit) LD50: 17800 mg/kg ^[2]		Eye (rabbit): 500 mg - SE	EVERE	
ethylbenzene	Inhalation(Rat) LC50: 17.2 mg/l4h ^[2] Eye: no		Eye: no adverse effect ol	: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: 3500 mg/kg ^[2] Skin (rabbit): 15 mg/24h mild				
		:	Skin: no adverse effect o	bserved (not i	rritating) ^[1]
	ΤΟΧΙCΙΤΥ	IRRITATION	4		
melamine	Dermal (rabbit) LD50: >1000 mg/kg ^[2]	Eye (rabbit):	: 500 mg/24h mild *TNO	Nutrition & Fo	od Research Institu
	Oral (Rat) LD50: 3161 mg/kg ^[2]				
	ΤΟΧΙΟΙΤΥ				IRRITATION
	Dermal (rabbit) LD50: >3160 mg/kg ^[2]				Not Available
diisononyl phthalate	Inhalation(Rat) LC50: >4.4 mg/l4h ^[1]				
	Oral (Rat) LD50: >10000 mg/kg ^[2]				
Legend:	1. Value obtained from Europe ECHA Registe specified data extracted from RTECS - Registe			ained from ma	anufacturer's SDS. Unless otherwise
A	~		Construction		
Acute Toxicity Skin Irritation/Corrosion	×		Carcinogenicity Reproductivity	* *	
Skin Irritation/Corrosion	2				

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X

STOT - Single Exposure

Aspiration Hazard

STOT - Repeated Exposure

Legend:

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

SECTION 12 Ecological information

Nullifire SC902 Part A	Endpoint	Test Duration (hr)	:	Species	Value	5	Source
Numme SC902 Part A	Not Available	Not Available		Not Available	Not Availab	le M	Not Available
	Endpoint	Test Duration (hr)	Spec	ies		Value	Source
	LC50	96h	Fish			2.6mg/l	2
xylene	EC50	72h	Algae	e or other aquatic plant	s	4.6mg/l	2
	EC50	48h	Crus	tacea		1.8mg/l	2
	NOEC(ECx)	73h	Algae	e or other aquatic plant	s	0.44mg/	l 2
	En du sint		Onesia		V		C
	Endpoint LC50	Test Duration (hr) 96h	Species Fish			alue	Source 4
	EC50	96n 72h		har aquatia planta		381-4.075mg/L	4
ethylbenzene	EC50 EC50	48h	-	her aquatic plants		4-9.8mg/l	4
	EC50(ECx)	24h				1.37-4.4mg/l 0.02-938mg/l	
	. ,		-			•	4
	EC50 96h Algae or other aquatic plants 1.7-7.6		7-7.6mg/i	4			
	Endpoint	Test Duration (hr)	Speci	es		Value	Source
	BCF	1008h	Fish			<0.38	7
melamine	LC50	96h	Fish	Fish		>3000mg/l	2
meiamine	EC50	48h	Crusta	icea		<180mg/l	2
	NOEC(ECx)	1344h	Fish			3.925mg/L	4
	EC50	96h	Algae	or other aquatic plants		325mg/l	2
	Endpoint	Test Duration (hr)	Specie	26		Value	Source
	NOEC(ECx)	504h	Crusta			>0.034mg/l	
	LC50	96h	Fish			>0.1mg/l	2
diisononyl phthalate	EC50	72h			>88mg/l	2	
	EC50	96h		or other aquatic plants		>2.8mg/l	1
	EC50	48h	Crusta			>0.086mg/l	

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
melamine	HIGH (Half-life = 360 days)	LOW (Half-life = 0.44 days)
diisononyl phthalate	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)
melamine	LOW (BCF = 15)
diisononyl phthalate	LOW (BCF = 183.8)

Mobility in soil

Ingredient	Mobility
ethylbenzene	LOW (KOC = 517.8)
melamine	LOW (KOC = 20.79)
diisononyl phthalate	LOW (KOC = 467200)

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: 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. Where possible retain label warnings and SDS and observe all notices pertaining to the product. 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. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Recycling Disposal (if all else fails) 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. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. It may be necessary to collect the responsible authority. 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. DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

Burning the hazardous substance must happen under controlled conditions with no person or place exposed to

(1) a blast overpressure of more than 9 kPa; or(2) an unsafe level of heat radiation.

The disposed hazardous substance must not come into contact with class 1 or 5 substances.

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

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
HSR002669	Surface Coatings and Colourants Flammable Carcinogenic Group Standard 2020

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

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

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
Flammable Liquid Category 3	500 L in containers more than 5 L	250 L
Flammable Liquid Category 3	1 500 L in containers up to and including 5 L	250 L

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
Flammable Liquid Category 3				10 L

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (xylene; ethylbenzene; melamine; diisononyl phthalate)
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	Yes
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	14/02/2023
Initial Date	19/02/2018

SDS Version Summary

Version	Date of Update	Sections Updated
8.13	14/02/2023	Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), First Aid measures - Advice to Doctor, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Exposure controls / personal protection - Engineering Control, Handling Procedure, Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (Respirator), Physical and chemical properties - Physical Properties

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_\circ

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 KLF: NO-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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Altex Coatings Ltd

Version No: 9.24

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

Chemwatch Hazard Alert Code: 4

Issue Date: 14/02/2023 Print Date: 14/02/2023 S.GHS.NZL.EN

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

Product Identifier	
Product name	Nullifire SC902 Part B
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses	Part B of a two pack industrial coating

Details of the manufacturer or supplier of the safety data sheet

Т

Registered company name	Altex Coatings Ltd
Address	91-111 Oropi Road Tauranga 3112 New Zealand
Telephone	+64 7 541 1221
Fax	+64 7 541 1310
Website	www.altexcoatings.com
Email	neil.debenham@carboline.co.nz

Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Considered a Hazardous Substance	according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.
Classification ^[1]	Flammable Liquids Category 3, Specific Target Organ Toxicity - Repeated Exposure Category 2, Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2
Legend:	1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements



Signal word Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H373	May cause damage to organs through prolonged or repeated exposure. (hearing organs)
H318	Causes serious eye damage.
H315	Causes skin irritation.

Precautionary statement(s) Prevention

P210	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P260	Do not breathe mist/vapours/spray.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	

P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
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.
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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

P403+P235	Store in a well-ventilated place. Keep cool.

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
1330-20-7	5-10	xylene
13822-56-5	5-10	3-aminopropyltrimethoxysilane
100-41-4	1-5	ethylbenzene.
Legend:	 Classified by Chemwatch; 2. Classificati Classification drawn from C&L * EU IOE 	on drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; LVs available

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: Quickly but gently, wipe material off skin with a dry, clean cloth. Immediately remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means. Avoid giving milk or oils. Avoid giving milk or oils.

Indication of any immediate medical attention and special treatment needed

SECTION 5 Firefighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO2) formaldehyde silicon dioxide (SiO2) other pyrolysis products typical of burning organic material. May emit poisonous 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	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.

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

5	Suitable contai	ner Pac		nmended by ma s are clearly lab		om leaks.	
Stora	ge incompatib	ility ► Con	tact with water	liberates highly f can cause heati acid chlorides, a	ng and decompo		es.
	$\mathbf{\wedge}$	~			$\mathbf{\wedge}$	$\mathbf{\wedge}$	



X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

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)	xylene	Dimethylbenzene	50 ppm / 217 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	ethylbenzene	Ethyl benzene	20 ppm / 88 mg/m3	176 mg/m3 / 40 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin

Exposure controls

	be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level. 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 ven 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properl 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.	tilation that strategicall y. The design of a
Appropriate engineering controls	General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved resp essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contami workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air req remove the contaminant.	inants generated in the
Appropriate engineering controls	essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contami workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air req	inants generated in the
	essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contami workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air req remove the contaminant.	inants generated in the juired to effectively

	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	, conveyer loading, crusher dusts, gas discharge (active 1-2.5 m/s (200-500 f/min)	
	grinding, abrasive blasting, tumbling, high speed wheel gevery high rapid air motion).	enerated dusts (released at high initial velocity into	2.5-10 m/s (500-2000 f/min.)	
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion	4: Small hood - local control only		
	Simple theory shows that air velocity falls rapidly with dista with the square of distance from the extraction point (in sim accordingly, after reference to distance from the contamina 1-2 m/s (200-400 f/min.) for extraction of solvents generate considerations, producing performance deficits within the e factors of 10 or more when extraction systems are installed	pple cases). Therefore the air speed at the extracti- ting source. The air velocity at the extraction fan, d in a tank 2 meters distant from the extraction po- extraction apparatus, make it essential that theoret	ion point should be adjusted, for example, should be a minimum pint. Other mechanical	
Personal protection				
Eye and face protection	 Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact the wearing of lenses or restrictions on use, should be and adsorption for the class of chemicals in use and at their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens shou a clean environment only after workers have washed h national equivalent] 	created for each workplace or task. This should in a account of injury experience. Medical and first-ai v available. In the event of chemical exposure, beguld be removed at the first signs of eye redness or	nclude a review of lens absorption id personnel should be trained in gin eye irrigation immediately and irritation - lens should be remove	
Skin protection	See Hand protection below			
	The colorian of quitable glouge does not only depend on th	no motorial but also an further marks of quality wh		
Hands/feet protection	The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of sever and has therefore to be checked prior to the application. The exact break through time for substances has to be obter making a final choice. Personal hygiene is a key element of effective hand care. Of washed and dried thoroughly. Application of a non-perfurme Suitability and durability of glove type is dependent on usage if requency and duration of contact, echemical resistance of glove material, glove thickness and exterity Select gloves tested to a relevant standard (e.g. Europe Effective hand care. Of when prolonged or frequently repeated contact may occuminates according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recomment. Some glove polymer types are less affected by movement. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are Excellent when breakthrough time < 20 min exceed that glove will be dependent on the exact comprox of the glove will be dependent on the exact comproximiter of the glove will be dependent on the exact comproximation of the task requirements and knowledge of b Glove thickness may also vary depending on the glove matata should always be taken into account to ensure selection of the task requirements and knowledge of b Glove thickness may also vary depending on the glove simplikely to give short duration protection and would normally 1 • Thicker gloves (up to 3 mm or more) may be required whe puncture potential Gloves, e.g. PVC. • Wear safety footwear or safety gumboots, e.g. Rubber	ral substances, the resistance of the glove materia ained from the manufacturer of the protective glov Gloves must only be worn on clean hands. After us ad moisturiser is recommended. ge. Important factors in the selection of gloves incl N 374, US F739, AS/NZS 2161.1 or national equiv r, a glove with a protection class of 5 or higher (br al equivalent) is recommended. tition class of 3 or higher (breakthrough time greate anded. t and this should be taken into account when cons e rated as: greater than 0.35 mm, are recommended. tarily a good predictor of glove resistance to a spe- position of the glove material. Therefore, glove sele reakthrough times. nufacturer, the glove type and the glove model. Th on of the most appropriate glove for the task. f varying thickness may be required for specific tar where a high degree of manual dexterity is neede be just for single use applications, then disposed of ere there is a mechanical (as well as a chemical) r res, hands should be washed and dried thoroughly	al can not be calculated in advance res and has to be observed when sing gloves, hands should be lude: realent). reakthrough time greater than 240 er than 60 minutes according to E sidering gloves for long-term use. cific chemical, as the permeation ection should also be based on herefore, the manufacturers techn sks. For example: ed. However, these gloves are onl of. risk i.e. where there is abrasion or	
Hands/feet protection	 manufacturer. Where the chemical is a preparation of severand has therefore to be checked prior to the application. The exact break through time for substances has to be obtimaking a final choice. Personal hygiene is a key element of effective hand care. Overall hygiene is a key element of a non-perfume Suitability and durability of glove type is dependent on usage of the duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe Effective hand care over the non-perfusion of a non-perfusion of a contact, when prolonged or frequently repeated contact may occur minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recomment. Some glove polymer types are less affected by movement. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves and excerting time > 20 min Fair when breakthrough time < 20 min Fair when breakthrough time < 20 min Poor when glove material degrades For general applications, gloves with a thickness typically of It should be emphasised that glove thickness is not necess efficiency of the glove will be dependent on the exact compronsideration of the task requirements and knowledge of b Glove thickness may also vary depending on the glove so of Thinner gloves (down to 0.1 mm or less) may be required likely to give short duration protection and would normally the Thicker gloves (up to 3 mm or more) may be required who puncture potential Gloves must only be worn on clean hands. After using glove moisturiser is recommended. Wear chemical protective gloves, e.g. PVC. 	ral substances, the resistance of the glove materia ained from the manufacturer of the protective glov Gloves must only be worn on clean hands. After us ad moisturiser is recommended. ge. Important factors in the selection of gloves incl N 374, US F739, AS/NZS 2161.1 or national equiv r, a glove with a protection class of 5 or higher (br al equivalent) is recommended. tition class of 3 or higher (breakthrough time greate anded. t and this should be taken into account when cons e rated as: greater than 0.35 mm, are recommended. tarily a good predictor of glove resistance to a spe- position of the glove material. Therefore, glove sele reakthrough times. nufacturer, the glove type and the glove model. Th on of the most appropriate glove for the task. f varying thickness may be required for specific tar where a high degree of manual dexterity is neede be just for single use applications, then disposed of ere there is a mechanical (as well as a chemical) r res, hands should be washed and dried thoroughly	al can not be calculated in advance res and has to be observed when sing gloves, hands should be lude: realent). reakthrough time greater than 240 er than 60 minutes according to E sidering gloves for long-term use. cific chemical, as the permeation ection should also be based on herefore, the manufacturers techn sks. For example: ed. However, these gloves are onl of. risk i.e. where there is abrasion or	
	 manufacturer. Where the chemical is a preparation of severe and has therefore to be checked prior to the application. The exact break through time for substances has to be obtimaking a final choice. Personal hygiene is a key element of effective hand care. (washed and dried thoroughly. Application of a non-perfured Suitability and durability of glove type is dependent on usage frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe Eff. When prolonged or frequently repeated contact may occuminutes according to EN 374, AS/NZS 2161.10.1 or nation When prolonged or frequently repeated contact may occuminutes according to EN 374, AS/NZS 2161.10.1 or nation When only brief contact is expected, a glove with a proted 374, AS/NZS 2161.10.1 or nation and polymer types are less affected by movement. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are excellent when breakthrough time > 20 min Fair when breakthrough time > 20 min Poor when glove material degrades For general applications, gloves with a thickness typically glit should be emphasised that glove thickness is not necess efficiency of the glove will be dependent on the exact compromised and usays be taken into account to ensure selection to the task requirements and knowledge of b Glove thickness may also vary depending on the glove ma data should always be taken into account to ensure selection the case (up to 3 mm or more) may be required whe puncture potential Gloves must only be worn on clean hands. After using glow moisturiser is recommended. Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber 	ral substances, the resistance of the glove materia ained from the manufacturer of the protective glov Gloves must only be worn on clean hands. After us ad moisturiser is recommended. ge. Important factors in the selection of gloves incl N 374, US F739, AS/NZS 2161.1 or national equiv r, a glove with a protection class of 5 or higher (br al equivalent) is recommended. tition class of 3 or higher (breakthrough time greate anded. t and this should be taken into account when cons e rated as: greater than 0.35 mm, are recommended. tarily a good predictor of glove resistance to a spe- position of the glove material. Therefore, glove sele reakthrough times. nufacturer, the glove type and the glove model. Th on of the most appropriate glove for the task. f varying thickness may be required for specific tar where a high degree of manual dexterity is neede be just for single use applications, then disposed of ere there is a mechanical (as well as a chemical) r res, hands should be washed and dried thoroughly	al can not be calculated in advance res and has to be observed when sing gloves, hands should be lude: realent). reakthrough time greater than 240 er than 60 minutes according to E sidering gloves for long-term use. cific chemical, as the permeation ection should also be based on herefore, the manufacturers techn sks. For example: ed. However, these gloves are onl of. risk i.e. where there is abrasion or	

 Non-sparking protective boots Static-free clothing. Ensure availability of lifeline. Staff should be trained in all aspects of rescue work. Rescue gear: Two sets of SCBA breathing apparatus Rescue Harness, lines etc.
--

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

'Forsberg Clothing Performance Index'.

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

Nullifire SC902 Part B

Material	CPI
TEFLON	А
VITON	А
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	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

Respiratory protection

Type A 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	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

^ - Full-face

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

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

Appearance	white viscous liquid		
Physical state	Liquid	Relative density (Water = 1)	0.98
		Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	500
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	137	Molecular weight (g/mol)	Not Available
Flash point (°C)	47		
Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available
Flammability	Flammable.	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 Available
Vapour density (Air = 1)	Not Available	VOC g/L	112

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Information on toxicological effects

Image: Accidental ingestion of the material may be damaging to the health of the individual. Image: Accidental ingestion of the material may be damaging to the health of the individual. Skin Consta There is strong evidence to suggest that this material, on a single contact with skin, can cause serious, irrevenable damage of organs. The material is not thought to produce adverse health effects or skin intration following contact (se classified by EC Directives using animal mandles). Skin Consta Although the liquid is not thought to be an intration following the liquid is not thought to be an intration following the liquid is not thought to be an intration following. They produce systemic injury with harmful effects. Examine the skin constant damage is suitably protected. Eve Although the liquid is not thought to be an initiant (se classified by EC Directives), direct contact with the eye may produce transient dascomfort characterised by tealing or conjunctival redness (se with windown). Chronic Toxicrry Imaterial can cause cancer or mutations, but there is not enough data to make an assessment. Nullifier SC902 Part B Toxicrry Imaterial can cause cancer or mutations. Just there is not enough data to make an assessment. Skin Consta Toxicrry Imaterial can cause cancer or mutations. Just there is not enough data to make an assessment. Nullifier SC902 Part B Toxicrry Imaterial can cause cancer or mutations. Just there is not enough data to make an assessment. Skin consta Toxicrry<	Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.		
The material is not thought to produce adverse health affects or skin irritation blowm contact (as classified by EC. Directives using animal models), Neverse heat to a minimum and that suitable gloves be used in an occupational setting. Skin Contact Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood stream, through, for example, cuts, abradem or the suitably protoce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protoced. Eye Although the liquid is not thought to be an irritant (as classified by EC. Directives), direct contact with the eye may produce transient discomfort damacterised by tearing or conjunctival redness (as with windburn). Chronic Chronic Indeptition produce adverse to the product is not thought to produce shortic effects adverse to the health (as classified by EC. Directives) using animal models), investicies exposure by all rotes should be minimide as a matter of corns. There has been concern that the insterial can cause cancer or mutations, but there is not enough data to make an assessment. Nullitire SC902 Part B TOXICITY IRRITATION Multicity in C20: 5000 ppmdh ^[2] Eye (human): 200 ppm irritant Inhelabiti. L50: 51700 mg/kg ^[2] Skin (rabbi): Sin glove): L50: 51800 mg/kg ^[2] Eye (rabbi): Sin glove): Biol (irritating) ^[1] Inhelabiting (rabbi): Sin glove): Sin (rabbi): Sin (rabbi): Sin glove): Sin (rabbi): Sin glove): Sin (rabbi): Sin (rabbi): Sin glove): Sin (rabbi): Sin (Ingestion	Accidental ingestion of the material may be damaging to the	health of the individual.	
characterised by tearing or conjunctival redness (as with windburn). Chronic Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. Three has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Nullifier SC902 Part B TOXICITY IRRITATION TOXICITY IRRITATION Nullifier SC902 Part B TOXICITY IRRITATION Sylere TOXICITY IRRITATION Dermal (rabbit) LD50: >1700 mg/kg ^[2] Eye (human): 200 ppm irritant Inhalation(Rat) LC50: 5000 ppm4h ^[2] Eye (tabbit): 5 mg/24h SEVERE Oral (Mouse) LD50; 2119 mg/kg ^[2] Eye (rabbit): 50 mg/24h moderate Skin: adverse effect observed (irritating) ^[1] Skin: adverse effect observed (irritating) ^[1] Stain: adverse effect observed (irritating) ^[1] Not Available TOXICITY IRRITATION Dermal (rabbit) LD50: 15800 mg/kg ^[2] Not Available Inhalation(Rat) LC50: 64000 ppm4h ^{2]} Not Available Inhalation(Rat) LD50: 15800 mg/kg ^[2] Not Available Inhalation(Rat) LD50: 15800 mg/kg ^[2] Not Available Inhalation(Rat) LD50: 5628 mg/kg ^[2] <th>Skin Contact</th> <th colspan="3">he material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal nodels). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational etting. Open cuts, abraded or irritated skin should not be exposed to this material intry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin</th>	Skin Contact	he material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal nodels). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational etting. Open cuts, abraded or irritated skin should not be exposed to this material intry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin		
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ethylbenzene TOXICITY IRRITATION	3-aminopropyltrimethoxysilane	Inhalation(Rat) LC50: 64000 ppm4h ^[2]		
ethylbenzene		Oral (Rat) LD50: 5628 mg/kg ^[2]		
ethylbenzene		ΤΟΧΙΟΙΤΥ	IRRITATION	
	ethylbenzene	Dermal (rabbit) LD50: 17800 mg/kg ^[2]	Eye (rabbit): 500 mg - SEVERE	

	Inhalation(Rat) LC50: 17.2 mg/l4h ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
	Oral (Rat) LD50: 3500 mg/kg ^[2]	Skin (rabbit): 15 mg/24h mild
		Skin: no adverse effect observed (not irritating) ^[1]
Legend:	 Value obtained from Europe ECHA Registered Subs specified data extracted from RTECS - Register of Toxi 	tances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise c Effect of chemical Substances

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	*
Mutagenicity	×	Aspiration Hazard	×
		Legend: X – Data either n	ot available or does not fill the criteria for classificati

✓ – Data available to make classification

SECTION 12 Ecological information

Toxicity

Nullifire SC902 Part B	Endpoint	Test Duration (hr)		Species	Value	Sour	ce
Nullifire SC902 Part B	Not Available	Not Available		Not Available	Not Available	Not A	Available
	Endpoint	Test Duration (hr)	Sp	ecies		Value	Source
	LC50	96h	Fis	h		2.6mg/l	2
xylene	EC50	72h	Alg	ae or other aquatic pla	ants	4.6mg/l	2
	EC50	48h	Cru	istacea		1.8mg/l	2
	NOEC(ECx)	73h	Alç	ae or other aquatic pla	ants	0.44mg/l	2
	Endpoint	Test Duration (hr)	Spe	ecies		Value	Source
3-aminopropyltrimethoxysilane	LC50	96h	Fis	ı		>100mg/l	2
	EC50	72h	Alg	ae or other aquatic pla	nts	603mg/l	2
	EC50	48h	Cru	stacea		>100mg/l	2
	NOEC(ECx)	72h	Alg	ae or other aquatic pla	nts	1.3mg/l	2
	Endpoint	Test Duration (hr)	Species		Value)	Source
	LC50	96h	Fish		3.381	-4.075mg/L	4
a thuill an ann a	EC50	72h	Algae or	other aquatic plants	2.4-9	.8mg/l	4
ethylbenzene	EC50	48h	Crustace	а	1.37-	4.4mg/l	4
	EC50(ECx)	24h	Algae or	other aquatic plants	0.02-	938mg/l	4
	EC50	96h	Algae or	other aquatic plants	1.7-7	.6mg/l	4
Legend:	Ecotox database -	IUCLID Toxicity Data 2. Europ Aquatic Toxicity Data 5. ECE Data 8. Vendor Data					

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
3-aminopropyltrimethoxysilane	HIGH	HIGH
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
3-aminopropyltrimethoxysilane	LOW (LogKOW = -1.1604)
ethylbenzene	LOW (BCF = 79.43)

Mobility in soil

Ingredient

Mobility

Ingredient	Mobility
3-aminopropyltrimethoxysilane	LOW (KOC = 1936)
ethylbenzene	LOW (KOC = 517.8)

SECTION 13 Disposal considerations

	Containers may still present a chemical hazard/ danger when empty.				
	Return to supplier for reuse/ recycling if possible.				
	Otherwise:				
	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.				
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.				
	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.				
	A Hierarchy of Controls seems to be common - the user should investigate:				
	Reduction				
	Reuse				
	Recycling				
Product / Packaging disposal	 Disposal (if all else fails) 				
	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.				
	DO NOT allow wash water from cleaning or process equipment to enter drains.				
	It may be necessary to collect all wash water for treatment before disposal.				
	In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.				
	Where in doubt contact the responsible authority.				
	 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. DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

Burning the hazardous substance must happen under controlled conditions with no person or place exposed to

(1) a blast overpressure of more than 9 kPa; or

(2) an unsafe level of heat radiation.

The disposed hazardous substance must not come into contact with class 1 or 5 substances.

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

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	
HSR002662	Surface Coatings and Colourants Flammable Group Standard 2020	

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

Hazardous Substance Location

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

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
Flammable Liquid Category 3	500 L in containers more than 5 L	250 L
Flammable Liquid Category 3	1 500 L in containers up to and including 5 L	250 L

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
Flammable Liquid Category 3				10 L

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (xylene; 3-aminopropyltrimethoxysilane; ethylbenzene)	
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 (3-aminopropyltrimethoxysilane)	
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	14/02/2023
Initial Date	19/02/2018

SDS Version Summary

Version	Date of Update	Sections Updated
8.24	14/02/2023	Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), First Aid measures - Advice to Doctor, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, First Aid measures - First Aid (eye), First Aid measures - First Aid (inhaled), First Aid measures - First Aid (skin), First Aid measures - First Aid (swallowed), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (Respirator), Physical and chemical properties - Physical Properties

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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