

# Reactamine Joint Seal Part A

RESENE PAINTS AUSTRALIA

Chemwatch: 9-47322  
Version No: 2.3  
Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 4

Issue Date: 05/02/2014  
Print Date: 18/02/2014  
Initial Date: Not Available  
S.GHS.NZLEN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

Product name	Reactamine Joint Seal Part A
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	TOXIC BY INHALATION LIQUID, N.O.S. with an LC50 lower than or equal to 1000 ml/m3 and saturated vapour concentration greater than or equal to 10 LC50
Chemical formula	Not Applicable
Other means of identification	Not Available
CAS number	Not Applicable

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

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

Registered company name	RESENE PAINTS AUSTRALIA
Address	7 Production Ave, Molendinar 4214 QLD Australia
Telephone	+61 7 55949522
Fax	+61 7 55126697
Website	Not Available
Email	Not Available

### Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	131126
Other emergency telephone numbers	131126

### CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
+800 2436 2255	+612 9186 1132	Not Available

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## 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.**

GHS Classification <sup>[1]</sup>	Acute Toxicity (Inhalation) Category 2, Skin Corrosion/Irritation Category 2, Respiratory Sensitizer Category 1, Skin Sensitizer Category 1, STOT - RE Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	6.1B (inhalation), 6.3A, 6.5A (respiratory), 6.5B (contact), 6.9A (inhalation)

### Label elements

GHS label elements	
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SIGNAL WORD	<b>DANGER</b>
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## Reactamine Joint Seal Part A

### Hazard statement(s)

H330	Fatal if inhaled
H315	Causes skin irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
H372	Causes damage to organs through prolonged or repeated exposure

### Precautionary statement(s): Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.

### Precautionary statement(s): Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor/physician/first aider
P320	Specific treatment is urgent (see advice on this label).
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider
P302+P352	IF ON SKIN: Wash with plenty of water and soap
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

P403+P233	Store in a well-ventilated place.
P405	Store locked up.

### Precautionary statement(s): Disposal

P501	Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration
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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
101-68-8	30	<a href="#">4,4'-diphenylmethane diisocyanate (MDI)</a>
9048-57-1	3	<a href="#">MDI/ polypropylene glycol copolymer</a>
108-32-7	0	<a href="#">propylene carbonate</a>
25686-28-6	NotSpec.	<a href="#">MDI homopolymer</a>

## SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

### Description of first aid measures

<b>Eye Contact</b>	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <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>
<b>Skin Contact</b>	<p>If skin contact occurs:</p> <ul style="list-style-type: none"> <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>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ 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.</li> <li>▶ Transport to hospital, or doctor, without delay.</li> </ul>

Continued..

## Reactamine Joint Seal Part A

	<p>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.</p>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>▶ <b>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</b></li> <li>▶ For advice, contact a Poisons Information Centre or a doctor.</li> <li>▶ Urgent hospital treatment is likely to be needed.</li> <li>▶ 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.</li> <li>▶ 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 MSDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>▶ If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the MSDS.</li> </ul> <p><b>Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:</b></p> <ul style="list-style-type: none"> <li>▶ <b>INDUCE</b> vomiting with fingers down the back of the throat, <b>ONLY IF CONSCIOUS</b>. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> </ul> <p><b>NOTE:</b> Wear a protective glove when inducing vomiting by mechanical means.</p>

### Indication of any immediate medical attention and special treatment needed

	<p>For sub-chronic and chronic exposures to isocyanates:</p> <ul style="list-style-type: none"> <li>▶ This material may be a potent pulmonary sensitiser which causes bronchospasm even in patients without prior airway hyperreactivity.</li> <li>▶ Clinical symptoms of exposure involve mucosal irritation of respiratory and gastrointestinal tracts.</li> <li>▶ Conjunctival irritation, skin inflammation (erythema, pain vesiculation) and gastrointestinal disturbances occur soon after exposure.</li> <li>▶ Pulmonary symptoms include cough, burning, substernal pain and dyspnoea.</li> <li>▶ Some cross-sensitivity occurs between different isocyanates.</li> <li>▶ Noncardiogenic pulmonary oedema and bronchospasm are the most serious consequences of exposure. Markedly symptomatic patients should receive oxygen, ventilatory support and an intravenous line.</li> <li>▶ Treatment for asthma includes inhaled sympathomimetics (epinephrine [adrenalin], terbutaline) and steroids.</li> <li>▶ Activated charcoal (1 g/kg) and a cathartic (sorbitol, magnesium citrate) may be useful for ingestion.</li> <li>▶ Mydriatics, systemic analgesics and topical antibiotics (Sulamyd) may be used for corneal abrasions.</li> <li>▶ There is no effective therapy for sensitised workers.</li> </ul> <p style="text-align: right;">[Ellenhorn and Barceloux; Medical Toxicology]</p> <p><b>NOTE:</b> 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.</p> <p>[Karol &amp; Jin, Frontiers in Molecular Toxicology, pp 56-61, 1992]</p> <p>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.</p>
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## SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

	▶ Foam.
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### Special hazards arising from the substrate or mixture

<b>Fire Incompatibility</b>	▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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### Advice for firefighters

<b>Fire Fighting</b>	▶ Alert Fire Brigade and tell them location and nature of hazard.
<b>Fire/Explosion Hazard</b>	▶ Combustible.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Minor Spills</b>	▶ Remove all ignition sources.
<b>Major Spills</b>	For isocyanate spills of less than 40 litres (2 m2):
	Personal Protective Equipment advice is contained in Section 8 of the MSDS.

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

<b>Safe handling</b>	▶ <b>DO NOT</b>
<b>Other information</b>	▶ Store in original containers.

### Conditions for safe storage, including any incompatibilities

<b>Suitable container</b>	▶ Lined metal can, lined metal pail/ can.
<b>Storage incompatibility</b>	▶ Avoid reaction with water, alcohols and detergent solutions.

## PACKAGE MATERIAL INCOMPATIBILITIES

## 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)	4,4'-diphenylmethane diisocyanate (MDI)	Isocyanates, all, (as -NCO)	0.02 (mg/m <sup>3</sup> )	0.07 (mg/m <sup>3</sup> )	Not Available	Sensitiser; These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.

## EMERGENCY LIMITS

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
4,4'-diphenylmethane diisocyanate (MDI)	0.05 / 5(ppm)	0.2 / 15(ppm)	2 / 25(ppm)	25 / 125(ppm)
propylene carbonate	0.125(ppm)	0.35(ppm)	2.5(ppm)	12.5(ppm)

Ingredient	Original IDLH	Revised IDLH
4,4'-diphenylmethane diisocyanate (MDI)	100(mgm <sup>3</sup> )	75(mgm <sup>3</sup> )

## Exposure controls

<b>Appropriate engineering controls</b>	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
<b>Personal protection</b>	
<b>Eye and face protection</b>	► Safety glasses with side shields.
<b>Skin protection</b>	See Hand protection below
<b>Hand protection</b>	<b>NOTE:</b>
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	► Overalls.
<b>Thermal hazards</b>	

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: Reactamine Joint Seal Part A Not Available

Material	CPI

\* CPI - Chemwatch Performance Index

## Respiratory protection

Type A-P Filter of sufficient capacity

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 P2	-	A-PAPR-AUS / Class 1 P2
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(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

## Reactamine Joint Seal Part A

<b>Appearance</b>	Not Available		
<b>Physical state</b>	Liquid	<b>Relative density (Water = 1)</b>	1.1
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Available
<b>pH (as supplied)</b>	Not Available	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	300-314	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not Available	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	>1	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Available	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Available	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Available
<b>Lower Explosive Limit (%)</b>	Not Available	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Not Available	<b>pH as a solution(1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	> 1	<b>VOC g/L</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	► Presence of incompatible materials.
<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

<b>Inhaled</b>	Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may produce toxic effects; these may be fatal.
<b>Ingestion</b>	Accidental ingestion of the material may be severely damaging to the health of the individual; animal experiments indicate that ingestion of less than 5 gram may be fatal.
<b>Skin Contact</b>	Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models).
<b>Eye</b>	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
<b>Chronic</b>	Practical evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a substantial number of individuals at a greater frequency than would be expected from the response of a normal population.

Reactamine Joint Seal Part A	TOXICITY	IRRITATION
	Not Available	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >6200 mg/kg *	[* = Bayer CCINFO 2133615]
	Inhalation (Rat) LC50: 178 mg/m3	Dermal Sensitiser *
	Oral (mouse) LD50: 2200 mg/kg	Respiratory Sensitiser (g.pig) *
	Oral (Rat) LD50: 9200 mg/kg	Skin (rabbit): 500 mg /24 hours
	Not Available	Not Available
MDI/ polypropylene glycol copolymer	TOXICITY	IRRITATION
	Not Available	Not Available
propylene carbonate	TOXICITY	IRRITATION
	Dermal (Rabbit) LD50: >2000 mg/kg	Eye (rabbit): 60 mg - moderate
	Dermal (rabbit) LD50: >5000 mg/kg	Skin (human): 100 mg/3d-I moderate
	Oral (Mouse) LD50: 20700 mg/kg	Skin (rabbit): 500 mg moderate
	Oral (Rat) LD50: >5000 mg/kg	
	Oral (rat) LD50: 29000 mg/kg	

## Reactamine Joint Seal Part A

	Subcutaneous (Mouse) LD50: 15800 mg/kg	
	Subcutaneous (Rat) LD50: 11100 mg/kg	
	Not Available	Not Available
MDI homopolymer	<b>TOXICITY</b>	<b>IRRITATION</b>
	Not Available	Not Available

4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)	Inhalation (human) TCLo: 0.13 ppm/30 mins Eye (rabbit): 0.10 mg moderate
PROPYLENE CARBONATE	The material may produce moderate eye irritation leading to inflammation.
MDI HOMOPOLYMER	as polymethylene polyphenyl isocyanate
Reactamine Joint Seal Part A, 4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI), MDI/POLYPROPYLENE GLYCOL COPOLYMER, MDI HOMOPOLYMER	The following information refers to contact allergens as a group and may not be specific to this product.

Acute Toxicity	Acute Toxicity (Inhalation) Category 2	Carcinogenicity	Not Applicable
Skin Irritation/Corrosion	Skin Corrosion/Irritation Category 2	Reproductivity	Not Applicable
Serious Eye Damage/Irritation	Not Applicable	STOT - Single Exposure	Not Applicable
Respiratory or Skin sensitisation	Respiratory Sensitizer Category 1 Skin Sensitizer Category 1	STOT - Repeated Exposure	STOT - RE Category 1
Mutagenicity	Not Applicable	Aspiration Hazard	Not Applicable

## CMR STATUS

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

DO NOT

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Not Available	Not Available	Not Available

## Bioaccumulative potential

Ingredient	Bioaccumulation
Not Available	Not Available

## Mobility in soil

Ingredient	Mobility
Not Available	Not Available

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

Product / Packaging disposal	► Containers may still present a chemical hazard/ danger when empty.
	Insure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

	
Marine Pollutant	NO
HAZCHEM	2XE

## Reactamine Joint Seal Part A

### Land transport (UN)

<b>UN number</b>	3382
<b>Packing group</b>	I
<b>UN proper shipping name</b>	TOXIC BY INHALATION LIQUID, N.O.S. with an LC50 lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC50
<b>Environmental hazard</b>	No relevant data
<b>Transport hazard class(es)</b>	Class : 6.1 Subrisk :
<b>Special precautions for user</b>	Special provisions : 274 limited quantity : 0

### Air transport (ICAO-IATA / DGR)

<b>UN number</b>	3382
<b>Packing group</b>	I
<b>UN proper shipping name</b>	Toxic by inhalation liquid, n.o.s. * with an inhalation toxicity ≤ 1000 mL/m <sup>3</sup> and saturated vapour concentration ≥ 10 LC50
<b>Environmental hazard</b>	No relevant data
<b>Transport hazard class(es)</b>	ICAO/IATA Class : 6.1 ICAO / IATA Subrisk : ERG Code : 6L
<b>Special precautions for user</b>	Special provisions : Cargo Only Packing Instructions : Forbidden Cargo Only Maximum Qty / Pack : Forbidden Passenger and Cargo Packing Instructions : Forbidden Passenger and Cargo Maximum Qty / Pack : Forbidden Passenger and Cargo Limited Quantity Packing Instructions : Forbidden Passenger and Cargo Maximum Qty / Pack : Forbidden

### Sea transport (IMDG-Code / GGVSee)

<b>UN number</b>	3382
<b>Packing group</b>	I
<b>UN proper shipping name</b>	TOXIC BY INHALATION LIQUID, N.O.S. with an inhalation toxicity lower than or equal to 1000 ml/m <sup>3</sup> and saturated vapour concentration greater than or equal to 10 LC50
<b>Environmental hazard</b>	No relevant data
<b>Transport hazard class(es)</b>	IMDG Class : 6.1 IMDG Subrisk :
<b>Special precautions for user</b>	EMS Number : F-A,S-A Special provisions : 274 Limited Quantities : 0

## 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
HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2006
HSR002536	Compressed Gas Mixtures (Toxic [6.1]) Group Standard 2006
HSR002593	Industrial and Institutional Cleaning Products (Toxic [6.1]) Group Standard 2006
HSR002645	Polymers (Toxic [6.1]) Group Standard 2006
HSR002614	Metal Industry Products (Toxic [6.1]) Group Standard 2006
HSR002625	N.O.S.
HSR002508	Additives, Process Chemicals and Raw Materials (Toxic [6.1]) Group Standard 2006
HSR002579	Food Additives and Fragrance Materials (Toxic [6.1]) Group Standard 2006
HSR002675	Surface Coatings and Colourants (Toxic [6.1]) Group Standard 2006
HSR002676	Surface Coatings and Colourants (Toxic [6.1], Combustible) Group Standard 2006
HSR002685	Water Treatment Chemicals (Toxic [6.1]) Group Standard 2006

## Reactamine Joint Seal Part A

HSR100425	Pharmaceutical Active Ingredients Group Standard 2010
HSR002550	Corrosion Inhibitors (Toxic [6.1]) Group Standard 2006
HSR002654	Solvents (Toxic [6.1]) Group Standard 2006

<b>4,4'-diphenylmethane diisocyanate (MDI)(101-68-8) is found on the following regulatory lists</b>	"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","New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)","GESAMP/EHS Composite List - GESAMP Hazard Profiles","International Air Transport Association (IATA) Dangerous Goods Regulations","IMO IBC Code Chapter 17: Summary of minimum requirements","New Zealand Inventory of Chemicals (NZIoC)","International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs","Sigma-AldrichTransport Information","FisherTransport Information","OECD List of High Production Volume (HPV) Chemicals","IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk","New Zealand Workplace Exposure Standards (WES)"
<b>MDI/ polypropylene glycol copolymer(9048-57-1) is found on the following regulatory lists</b>	"New Zealand Inventory of Chemicals (NZIoC)"
<b>propylene carbonate(108-32-7) is found on the following regulatory lists</b>	"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","New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)","GESAMP/EHS Composite List - GESAMP Hazard Profiles","IMO IBC Code Chapter 18: List of products to which the Code does not apply","New Zealand Inventory of Chemicals (NZIoC)","Sigma-AldrichTransport Information","Acros Transport Information","FisherTransport Information","International Council of Chemical Associations (ICCA) - High Production Volume List","OECD List of High Production Volume (HPV) Chemicals","IMO IBC Code Chapter 17: Summary of minimum requirements"
<b>MDI homopolymer(25686-28-6) is found on the following regulatory lists</b>	"New Zealand Inventory of Chemicals (NZIoC)"

### SECTION 16 OTHER INFORMATION

#### Other information

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

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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# Reactamine Joint Seal VG Part B

RESENE PAINTS AUSTRALIA

Chemwatch: 9-47320

Version No: 2.8

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 05/02/2014

Print Date: 18/02/2014

Initial Date: Not Available

S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

Product name	Reactamine Joint Seal VG Part B
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	Not Applicable
Chemical formula	Not Applicable
Other means of identification	Not Available
CAS number	Not Applicable

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

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

Registered company name	RESENE PAINTS AUSTRALIA
Address	7 Production Ave, Molendinar 4214 QLD Australia
Telephone	+61 7 55949522
Fax	+61 7 55126697
Website	Not Available
Email	Not Available

### Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	131126
Other emergency telephone numbers	131126

### CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
1800 039 008	+612 9186 1132	Not Available

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

HAZARDOUS CHEMICAL.

Poisons Schedule	
GHS Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Skin Sensitizer Category 1, Acute Aquatic Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

### Label elements

GHS label elements	
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SIGNAL WORD	DANGER
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### Hazard statement(s)

H315	Causes skin irritation
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## Reactamine Joint Seal VG Part B

<b>H318</b>	Causes serious eye damage
<b>H317</b>	May cause an allergic skin reaction
<b>H402</b>	Harmful to aquatic life

**Supplementary statement(s)**

Not Applicable

**Precautionary statement(s): Prevention**

<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.
<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapours/spray.
<b>P273</b>	Avoid release to the environment.
<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace.

**Precautionary statement(s): Response**

<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes.
<b>P310</b>	Immediately call a POISON CENTER/doctor/physician/first aider
<b>P321</b>	Specific treatment (see advice on this label).
<b>P302+P352</b>	IF ON SKIN: Wash with plenty of water and soap
<b>P333+P313</b>	If skin irritation or rash occurs: Get medical advice/attention.
<b>P362+P364</b>	Take off contaminated clothing and wash it before reuse.

**Precautionary statement(s): Storage**

Not Applicable

**Precautionary statement(s): Disposal**

<b>P501</b>	Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration
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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

**Substances**

See section below for composition of Mixtures

**Mixtures**

CAS No	%[weight]	Name
106264-79-3	20	<a href="#">di-(methylthio)toluenediamine</a>
694-83-7	5	<a href="#">1,2-cyclohexanediamine</a>
8001-79-4		<a href="#">castor oil</a>
9082-00-2	NotSpec.	<a href="#">polyethylene/ polypropylene glycol glyceryl ether</a>
7631-86-9	NotSpec.	<a href="#">silica amorphous</a>

## SECTION 4 FIRST AID MEASURES

**Description of first aid measures**

<b>Eye Contact</b>	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <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>
<b>Skin Contact</b>	<p>If skin contact occurs:</p> <ul style="list-style-type: none"> <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>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.
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## SECTION 5 FIREFIGHTING MEASURES

**Extinguishing media**

▶ Foam.
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**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.

**Fire/Explosion Hazard**

► Combustible.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Minor Spills**

► Remove all ignition sources.

**Major Spills**

Moderate hazard.

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

**SECTION 7 HANDLING AND STORAGE****Precautions for safe handling****Safe handling**

► Avoid all personal contact, including inhalation.

**Other information**

► Store in original containers.

**Conditions for safe storage, including any incompatibilities****Suitable container**

► Metal can or drum

**Storage incompatibility**

► Many arylamines (aromatic amines such as aniline, N-ethylaniline, o-toluidine, xylydine etc. and their mixtures) are hypergolic (ignite spontaneously) with red fuming nitric acid.

**PACKAGE MATERIAL INCOMPATIBILITIES****SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****OCCUPATIONAL EXPOSURE LIMITS (OEL)****INGREDIENT DATA**

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	silica amorphous	Fumed silica (respirable dust) / Silica - Amorphous Fumed silica (respirable dust)	2 (mg/m <sup>3</sup> )	Not Available	Not Available	(see Silica - Amorphous) / (see Chapter 14)
Australia Exposure Standards	silica amorphous	Precipitated silica / Silica gel / Silica - Amorphous Precipitated silica / Silica - Amorphous Silica gel	10 (mg/m <sup>3</sup> )	Not Available	Not Available	(see Silica - Amorphous); This value is for inspirable dust containing no asbestos and < 1% crystalline silica (see Chapter 14) / This value is for inspirable dust containing no asbestos and < 1% crystalline silica (see Chapter 14)
Australia Exposure Standards	silica amorphous	Silica - Amorphous Fume (thermally generated) (respirable dust)	2 (mg/m <sup>3</sup> )	Not Available	Not Available	Containing no asbestos and < 1% crystalline silica (see Chapter 14).
Australia Exposure Standards	silica amorphous	Diatomaceous earth (uncalcined) / Silica - Amorphous Diatomaceous earth (uncalcined)	10 (mg/m <sup>3</sup> )	Not Available	Not Available	(see Silica - Amorphous); This value is for inspirable dust containing no asbestos and < 1% crystalline silica (see Chapter 14) / This value is for inspirable dust containing no asbestos and < 1% crystalline silica (see Chapter 14)
Australia Exposure Standards	silica amorphous	Silica, fused	Not Available	Not Available	Not Available	No interim value (under review - see Chapter 14)

**EMERGENCY LIMITS**


Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
castor oil	40(ppm)	125(ppm)	500(ppm)	500(ppm)
polyethylene/ polypropylene glycol glyceryl ether	40(ppm)	125(ppm)	500(ppm)	500(ppm)
silica amorphous	6 / 0.3 / 2 / 10(ppm)	30 / 0.9 / 6 / 15 / 18(ppm)	50 / 1.5 / 200 / 125 / 10 / 30(ppm)	500 / 250 / 50(ppm)

Ingredient	Original IDLH	Revised IDLH
silica amorphous	N.E.(mgm <sup>3</sup> )N.E.(ppm)	3,000(mgm <sup>3</sup> )

**Exposure controls****Appropriate engineering controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.

## Reactamine Joint Seal VG Part B

<b>Personal protection</b>	
<b>Eye and face protection</b>	► Safety glasses with side shields.
<b>Skin protection</b>	See Hand protection below
<b>Hand protection</b>	► Wear chemical protective gloves, e.g. PVC.
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	► Overalls.
<b>Thermal hazards</b>	

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:  
Reactamine Joint Seal VG Part B Not Available

Material	CPI

\* CPI - Chemwatch Performance Index

## Respiratory protection

Type AK-P Filter of sufficient capacity

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(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

<b>Appearance</b>	Dark/Brown Colour with Ammonia-Like Odour		
<b>Physical state</b>	Liquid	<b>Relative density (Water = 1)</b>	1.06
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Available
<b>pH (as supplied)</b>	Not Available	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	313	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not Available	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	>1	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Available	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Available	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Available
<b>Lower Explosive Limit (%)</b>	Not Available	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Immiscible	<b>pH as a solution(1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	>1	<b>VOC g/L</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	► Presence of incompatible materials.

<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

<b>Inhaled</b>	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).
<b>Ingestion</b>	Ingestion of amine epoxy-curing agents (hardeners) may cause severe abdominal pain, nausea, vomiting or diarrhoea.
<b>Skin Contact</b>	The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis.
<b>Eye</b>	When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.
<b>Chronic</b>	Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.

<b>Reactamine Joint Seal VG Part B</b>	<b>TOXICITY</b>	<b>IRRITATION</b>
	Not Available	Not Available
<b>di-(methylthio)toluenediamine</b>	<b>TOXICITY</b>	<b>IRRITATION</b>
	Dermal (rabbit) LD50: >2000 mg/kg	* * [Abermarle Corp.]
	Oral (rat) LD50: 1515 mg/kg *	
	Not Available	Not Available
<b>1,2-cyclohexanediamine</b>	<b>TOXICITY</b>	<b>IRRITATION</b>
	Oral (rat) LD50: 1000 mg/kg	Skin (rabbit): 500 mg/24h mod.
	Not Available	Not Available
<b>castor oil</b>	<b>TOXICITY</b>	<b>IRRITATION</b>
		Eye (rabbit): 500 mg mild
		Skin (human): 50 mg/48h mild
		Skin (rabbit): 100 mg/24h SEVERE
	Not Available	Not Available
<b>polyethylene/ polypropylene glycol glyceryl ether</b>	<b>TOXICITY</b>	<b>IRRITATION</b>
	Not Available	Not Available
<b>silica amorphous</b>	<b>TOXICITY</b>	<b>IRRITATION</b>
	Dermal (rabbit) LD50: >5000 mg/kg *	* [Grace]
	Inhalation (rat) LC50: >0.139 mg/l/14h *	Eye (rabbit): non-irritating *
	Oral (rat) LD50: 3160 mg/kg	Skin (rabbit): non-irritating *
	Not Available	Not Available

<b>CASTOR OIL</b>	The material may be irritating to the eye, with prolonged contact causing inflammation. Some tumorigenic effects have been reported in animal studies
<b>POLYETHYLENE/ POLYPROPYLENE GLYCOL GLYCERYL ETHER</b>	No significant acute toxicological data identified in literature search.
<b>SILICA AMORPHOUS</b>	For silica amorphous: Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible.
<b>Reactamine Joint Seal VG Part B, DI-(METHYLTHIO)TOLUENEDIAMINE, 1,2-CYCLOHEXANEDIAMINE</b>	The following information refers to contact allergens as a group and may not be specific to this product.

<b>Acute Toxicity</b>	Not Applicable	<b>Carcinogenicity</b>	Not Applicable
<b>Skin Irritation/Corrosion</b>	Skin Corrosion/Irritation Category 2	<b>Reproductivity</b>	Not Applicable
<b>Serious Eye Damage/Irritation</b>	Serious Eye Damage Category 1	<b>STOT - Single Exposure</b>	Not Applicable
<b>Respiratory or Skin sensitisation</b>	Skin Sensitizer Category 1	<b>STOT - Repeated Exposure</b>	Not Applicable

## Reactamine Joint Seal VG Part B

Mutagenicity | Not Applicable

Aspiration Hazard | Not Applicable

## CMR STATUS

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

Harmful to aquatic organisms.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Not Available	Not Available	Not Available

## Bioaccumulative potential

Ingredient	Bioaccumulation
Not Available	Not Available

## Mobility in soil

Ingredient	Mobility
Not Available	Not Available

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

Product / Packaging disposal	
	Containers may still present a chemical hazard/ danger when empty.

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

Marine Pollutant	
	NO
HAZCHEM	
	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## SECTION 15 REGULATORY INFORMATION

## Safety, health and environmental regulations / legislation specific for the substance or mixture

di-(methylthio)toluenediamine(106264-79-3) is found on the following regulatory lists	"Australia Hazardous Substances Information System - Consolidated Lists", "Australia Inventory of Chemical Substances (AICS)", "Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List", "Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes", "International Maritime Dangerous Goods Requirements (IMDG Code)", "Belgium Federal Public Service Mobility and Transport, Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (Dutch)", "International Air Transport Association (IATA) Dangerous Goods Regulations", "Australia - New South Wales Protection of the Environment Operations (Waste) Regulation 2005 - Characteristics of trackable wastes", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)", "Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)", "Australia - South Australia Controlled Substances (Poisons) Regulations - Schedule E: Schedule 2 poisons authorised to be sold by holder of a medicine sellers licence", "Australia FAISD Handbook - First Aid Instructions, Warning Statements, and General Safety Precautions", "Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6", "Australia National Pollutant Inventory"
1,2-cyclohexanediamine(694-83-7) is found on the following regulatory lists	"Sigma-AldrichTransport Information", "Acros Transport Information", "Australia Inventory of Chemical Substances (AICS)", "OECD List of High Production Volume (HPV) Chemicals", "Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List", "Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes", "International Maritime Dangerous Goods Requirements (IMDG Code)", "Belgium Federal Public Service Mobility and Transport, Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (Dutch)", "International Air Transport Association (IATA) Dangerous Goods Regulations", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "FisherTransport Information", "Australia National Pollutant Inventory"
castor oil(8001-79-4) is found on the following regulatory lists	"IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "OSPAR National List of Candidates for Substitution - Norway", "Sigma-AldrichTransport Information", "Acros Transport Information", "Australia Inventory of Chemical Substances (AICS)", "International Fragrance Association (IFRA) Survey: Transparency List", "IOFI Global Reference List of Natural Complex Substances/Natural Flavouring Complexes", "Australia Therapeutic Goods Administration (TGA) Substances that may be used as active ingredients in Listed medicines", "International Numbering System for Food Additives", "OECD List of High Production Volume (HPV) Chemicals"
polyethylene/ polypropylene glycol glyceryl ether(9082-00-2) is found on the following regulatory lists	"OSPAR National List of Candidates for Substitution - United Kingdom", "Sigma-AldrichTransport Information", "Australia Inventory of Chemical Substances (AICS)", "OECD List of High Production Volume (HPV) Chemicals", "Australia High Volume Industrial Chemical List (HVICL)", "OSPAR National List of Candidates for Substitution - Norway"

## Reactamine Joint Seal VG Part B

**silica amorphous(7631-86-9) is found on the following regulatory lists**

"Australia Exposure Standards", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "Sigma-Aldrich Transport Information", "Acros Transport Information", "Fisher Transport Information", "Australia Drinking Water Guideline values for physical and chemical characteristics", "Australia Inventory of Chemical Substances (AICS)", "International Fragrance Association (IFRA) Survey: Transparency List", "International Council of Chemical Associations (ICCA) - High Production Volume List", "Australia Therapeutic Goods Administration (TGA) Substances that may be used as active ingredients in Listed medicines", "International Numbering System for Food Additives", "CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "OECD List of High Production Volume (HPV) Chemicals", "Australia High Volume Industrial Chemical List (HVICL)", "Australia - Victoria Occupational Health and Safety Regulations - Schedule 5 Hazardous Substances: Substances Prohibited for Specified Uses", "Australia Hazardous Substances Information System - Consolidated Lists", "Australia - Queensland Work Health and Safety Regulation - Hazardous chemicals (other than lead) requiring health monitoring", "Australia - South Australia - Hazardous Substances Requiring Health Surveillance", "Australia - Western Australia Hazardous Substances Prohibited for Specified Uses or Methods of Handling", "Australia - Western Australia Hazardous Substances Requiring Health Surveillance", "Australia - New South Wales Hazardous Substances Requiring Health Surveillance", "Australia Occupational Health and Safety (Commonwealth Employment) (National Standards) Regulations 1994 - Hazardous Substances Requiring Health Surveillance", "Australia - Tasmania Hazardous Substances Requiring Health Surveillance", "Australia - South Australia - Work Health and Safety Regulations 2012 - Requirements for health monitoring - Hazardous chemicals (other than lead) requiring health monitoring", "Australia - South Australia - Work Health and Safety Regulations 2012 - Restricted hazardous chemicals", "Australia - New South Wales - Work Health and Safety Regulation 2011 - Requirements for health monitoring - Hazardous chemicals (other than lead) requiring health monitoring", "Australia - New South Wales - Work Health and Safety Regulation 2011 Restricted hazardous chemicals", "Australia - Northern Territories Work Health and Safety National Uniform Legislation Regulations - Requirements for health monitoring - Hazardous chemicals (other than lead) requiring health monitoring", "Australia - Tasmania - Work Health and Safety Regulations 2012 - Requirements for Health Monitoring - Hazardous chemicals (other than lead) requiring health monitoring", "Australia - Tasmania - Work Health and Safety Regulations 2012 - Restricted hazardous chemicals", "Australia Work Health and Safety Regulations 2011 - Hazardous chemicals (other than lead) requiring health monitoring"

## SECTION 16 OTHER INFORMATION

### Other information

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

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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