

# VWR International, Pty Ltd

Chemwatch: 4784-67 Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements

Product name

Synonyms Other means of identification Chemwatch Hazard Alert Code: 1 Issue Date: 01/01/2013

Print Date: 22/09/2016

S.GHS.AUS.EN

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

#### **Product Identifier**

VWR Aqua resist water bath protective media
Not Available
Not Available

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

Relevant identified uses	Use according to manufacturer's directions. Water additive.

### Details of the supplier of the safety data sheet

Registered company name	VWR International, Pty Ltd
Address	Level 1, Unit 1a/60 Enterprise PI QLD 4173 Australia
Telephone	61 7 3009 4100 - 1300 727 696
Fax	61 7 3009 4199 ; 1300 135 123
Website	https://au.vwr.com
Email	csaus@au.vwr.com

#### Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	61 7 3009 4100 - 1300 727 696
Other emergency telephone numbers	Not Available

#### **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

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

#### CHEMWATCH HAZARD RATINGS

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

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Acute Aquatic Hazard Category 3, Chronic 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	Not Applicable
SIGNAL WORD	NOT APPLICABLE
Hazard statement(s)	
H412	Harmful to aquatic life with long lasting effects.
Supplementary statement(s	s)

Not Applicable

Precautionary statement(s) Prevention

Version No: 2.1.1.1

# VWR Aqua resist water bath protective media

P273 Avoid release to the environment.

#### Precautionary statement(s) Response

Not Applicable

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

P501

Dispose of contents/container in accordance with local regulations.

# **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
25988-97-0	0.1-1	dimethylamine/epichlorohydrin copolymer
32289-58-0	0.1-1	poly(hexamethylenebiguanide hydrochloride)
7732-18-5	>60	water

## **SECTION 4 FIRST AID MEASURES**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

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

Treat symptomatically

- Suggested treatment regime for biguanide intoxication:
- > Establish airway and assist ventilation with positive end expiratory pressure, if required, after endotracheal intubation. Circulatory competence must be maintained monitor blood pressure carefully.
- Induction of emesis with Ipecac may be contraindicated as a result of biguanide-induced gastric mucosal irritation.
- · Gastric lavage, following endotracheal intubation may be preferred. Activated charcoal and cathartics placed through the lavage tube may be useful.
- Forcing fluids may be counterproductive and result in fluid overload.
- Haemodialvsis may be useful as, in addition to facilitating the removal of biguanide and excess lactate, it permits the administration of adequate amounts of sodium bicarbonate without the risk of fluid overload or hypernatraemia.
- + Hypoglycaemia can be treated immediately with 50 ml of 50% glucose intravenously in adults or 0.5 g/kg per dose in children.
- + Acidosis may be treated with IV sodium bicarbonate (1-2 mEq/kg); doses of 44-50 mEq every 15 minutes may be required. Ensure that arterial blood gases, serum sodium chloride, potassium and ECG are monitored. The patient may require 200-400 mEq of sodium bicarbonate.
- Dehydration and hypovolaemia may require placement of a central venous line.
- + Hypotension may be treated by placing the patient in Trendelenburg's position and the cautious use of IV fluids. Pressor amines should be used cautiously, with blood lactate monitoring, as they may increase lactic acid production

ELLENHORN and BARCELOUX: Medical Toxicology; Diagnosis and Treatment of Human Poisoning. 1988

#### **SECTION 5 FIREFIGHTING MEASURES**

#### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

## Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

Advice for firefighters Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. **Fire Fighting** Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area.

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# VWR Aqua resist water bath protective media

Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit poisonous fumes.May emit corrosive fumes.</li> </ul>
HAZCHEM	Not Applicable

# SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
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.

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

## SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Store between 15 and 25 deg. C.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Not Available

#### EMERGENCY LIMITS

Ingredient	Material name TEEL-1		TEEL-2	TEEL-3
VWR Aqua resist water bath protective media	Not Available Not Available		Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
dimethylamine/ epichlorohydrin copolymer	Not Available		Not Available	
poly(hexamethylenebiguanide hydrochloride)	Not Available		Not Available	
water	Not Available		Not Available	

#### Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
Appropriate engineering	The basic types of engineering controls are:
controls	Process controls which involve changing the way a job activity or process is done to reduce the risk.
	Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and
	"removes" air in the work environment.

Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE: <ul> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul> </li> <li>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.</li> <li>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.</li> <li>Personal hygiene is a key element of effective hand care.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> </ul>
Thermal hazards	Not Available

#### 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:

VWR Aqua resist water bath protective media

\* 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

Appearance	Blue liquid with a weak odour; miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	1 approx
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100 approx	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available

Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	5.8-7.5
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

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

# SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Not normally a hazard due to non-volatile nature of product		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Biguanides, drugs used in treating type II diabetes mellitus, have been associated with the metabolic condition lactic acidosis which is highly dangerous and often fatal especially if taken with alcohol. Overexposure may cause fixed dilated pupils and lack of eye reflexes, nausea, vomiting, diarrhoea, loss of appetite and weight, abdominal discomfort, blood in vomit, agitation, confusion, lethargy, spasticity, and coma.		
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population.		
VWR Aqua resist water bath	TOXICITY	IRRITATION	
protective media	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
dimethylamine/	Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Eye (rabbit): 9.0/110 (Draize) *	
epienioionyann copolymer		Skin (rabbit): 0.1/8.0 (non-irritant)*	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
poly(hexamethylenebiguanide	Oral (rat) LD50: >2,000 mg/kg <sup>[2]</sup>	Sensitiser [Manufacturer]	
nyaroonionaoy		Skin (human): Irritant	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
water	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available	

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Legend:
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1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

DIMETHYLAMINE/ EPICHLOROHYDRIN COPOLYMER	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. After application to the eye some initial conjunctive blistering was noted in 3 of 6 animals but, this condition completely disappeared by the end of the observation period ** Sensitisation ; none known * * Tramfloc SDS (for 50% aqueous solution)
POLY(HEXAMETHYLENEBIGUANIDE HYDROCHLORIDE)	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. as 20% aqueous solution The Korea Centers for Disease Control and Prevention (KCDC) reported on August 31, 2011 that the unidentified fatal lung disease found in Korea might have been caused by chemical disinfectants used with household humidifiers. In Korea, humidifier disinfectants have been put in the water tanks of humidifiers for the prevention of germs, mold, and/or algae. According to the authorities, as of August 31, 2011, 28 adults, including 13 pregnant women, have been hospitalized because of this unidentified lung disease similar to acute interstitial pneumonia. Among them, four patients passed away because of the rapid development of pulmonary fibrosis after long exposure to the disinfectants over several months. Toxicology studies on rats revealed that the histopathological readings of products with polyhexamethyleneguanidine. (PHMG) and oligo(2-(2-ethoxy)ethoxyethyl guanidinium chloride (PGH) were identical to those of the human victims A provisional conclusion by an epidemiological investigation that active ingredients of disinfecting products caused this disease was reinforced by a subsequent inhalation toxicological study using rats. In Korea, humidifier disinfectants were inhaled small praticulates of antibiotics that formed after the evaporation of the water droplets

		generated by humidifier. The European Union technical guidance document on risk assessment suggests that data on acute inhalation toxicity tests should be submitted for the risk assessment of a chemical if vapour pressure is higher than 10–2 Pa, mass median aerodynamic diameter is shorter than 50 um, or inhalation is a relevant exposure route. Even though the Korean law for hazardous chemicals management requires acute inhalation toxicity tests when inhalation is a relevant route of exposure, the disinfectants were manufactured and sold on the market without any data on inhalation toxicity tests when inhalation is a relevant route of exposure, the disinfectants were manufactured and sold on the market without any data on inhalation toxicity being submitted and without risk evaluation on an industrial or government level. This might have been because the use of the active ingredients was not clearly defined at the moment of registration, and consequently, the inhalatory aspect was excluded at the risk evaluation step. A few studies have reported the inhalation toxicity of the humidifier disinfectants. According to the EU CLH report on polyhexamethylene biguanide (CAS RN: 32289-58-0), in tests using rats, the subacute inhalation no-observed effect concentration (NOEC) was 0.24 ug/l. In models calculating the the expected concentrations of the guanidines in a bedroom, using them as humidifier sterilisers, a worst-case scenario. was estimated In the evaluation, it was assumed that consumers used 4 L of water per day containing the designated amount of humidifier disinfectant in a 50 m3 bedroom. The air change rate in an energy-efficient bedroom in the winter season was assumed as low as 0.2 h–1. The calculated exposure concentrations of humidifier disinfectants were 0.10 ug/l for PHMG (CAS RN: 374572-91-5; subchromic inhalation NOEC 0.0.024 ug/l). In 2011, dozens of children and pregnant women in Korea died by exposure to sterilizer for household humidifier, such as Oxy and Cefu. An investigation of the putative to		
VWR Aqua resist wat protective media & V	er bath	No significant acute toxicological data identified in literature search.		
VWR Aqua resist wat protective n POLY(HEXAMETHYLENEBIGL HYDROCHLO	er bath nedia & JANIDE ORIDE)	For poly(hexamethylene biguanide)(syn: PHMB, polyaminopropyl biguanide): Acute toxicity: Oral (rat) LD50: Believed to be ~1,000 mg/kg Dermal (rabbit) LD50: Believed to be > 2,000 mg/kg May cause skin, eye and mucous membrane irritation (includes upper respiratory tract). May cause lethargy and diarrhoea from ingestion. PHMB is not readily bioavailable if ingested and is not well absorbed through skin. Repeat dose toxicity: The substance has been extensively studied for its toxicity to mammalian systems.		
WR Aqua resist water bath protective media & POLY(HEXAMETHYLENEBIGUANIDE HYDROCHLORIDE)         The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as uticaria or Quincke's oedema. The pathogenesis of eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urtic antibody-mediated immune reactions.		c to this product. ria or Quincke's oedema. The pathogenesis of contact Other allergic skin reactions, e.g. contact urticaria, involve		
Acute Toxicity	$\odot$	Carcinogenicity	0	
Skin Irritation/Corrosion	$\odot$	Reproductivity	$\odot$	
Serious Eye Damage/Irritation	$\odot$	STOT - Single Exposure	$\otimes$	
Respiratory or Skin sensitisation	$\odot$	STOT - Repeated Exposure	0	
Mutagenicity	$\odot$	Aspiration Hazard	$\odot$	
		Legend: 🗙	- Data available but does not fill the criteria for classification - Data required to make classification available	

🚫 – Data Not Available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
poly(hexamethylenebiguanide hydrochloride)	LC50	96	Fish	0.02545mg/L	4
poly(hexamethylenebiguanide hydrochloride)	EC50	48	Crustacea	0.18mg/L	4
water	LC50	96	Fish	897.520mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	EC50	384	Crustacea	199.179mg/L	3
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

For poly(hexamethylene biguanide)(syn: PHMB, polyaminopropyl biguanide):

Environmental Fate:

The product is expected to have low mobility in soil and sediments.

The product has low potential to bioaccumulate.

Ecotoxicology:

Fish LC50 (96 h): Rainbow trout 8 mg/l; bluegill sunfish 0.65-0.9 mg/l. - Very toxic to fish. **DO NOT** discharge into sewer or waterways.

#### Persistence and degradability

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

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)

# Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)

## SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	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 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. 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. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material). Decontaminate empty containers.

#### SECTION 14 TRANSPORT INFORMATION

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

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

DIMETHYLAMINE/ EPICHLOROHYDRIN COPOLYMER(25988-97-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Inventory of Chemical Substances (AICS)

POLY(HEXAMETHYLENEBIGUANIDE HYDROCHLORIDE)(32289-58-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Inventory of Chemical Substances (AICS)

#### WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (poly(hexamethylenebiguanide hydrochloride); water; dimethylamine/ epichlorohydrin copolymer)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (poly(hexamethylenebiguanide hydrochloride); dimethylamine/ epichlorohydrin copolymer)
Japan - ENCS	N (water; dimethylamine/ epichlorohydrin copolymer)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## SECTION 16 OTHER INFORMATION

#### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
dimethylamine/ epichlorohydrin copolymer	25988-97-0, 39660-17-8
poly(hexamethylenebiguanide hydrochloride)	32289-58-0, 27083-27-8, 70170-61-5, 133029-32-0, 28757-47-3, 91403-50-8, 50641-36-6

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

A list of reference resources used to assist the committee may be found at: www.chemwatch.net

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 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 This document is copyright.

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