Rowe Scientific Chloramine T Buffer Solution ROWE SCIENTIFIC

Chemwatch Hazard Alert Code: 0

Chemwatch: 4697-5

Version No: 5.1.8.8

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Issue Date: **14/07/2021** Print Date: **14/07/2021** S.GHS.AUS.EN

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

Product Identifier

Product name	we Scientific Chloramine T Buffer Solution	
Chemical Name	Not Applicable	
Synonyms	CB3119; CC6461	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

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

Relevant identified uses Buffer.

Details of the supplier of the safety data sheet

Registered company name	ROWE SCIENTIFIC	
Address	11 Challenge Boulevard Wangara WA 6065 Australia	
Telephone	9302 1911	
Fax	+61 8 9302 1905	
Website	http://rowe.com.au/	
Email	rowewa@rowe.com.au	

Emergency telephone number

Association / Organisation	ROWE SCIENTIFIC
Emergency telephone numbers	+61 8 9302 1911 (24 Hrs)
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable	
Classification ^[1]	ye Irritation Category 2A, Acute Aquatic Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)

H319	Causes serious eye irritation.
H402	Harmful to aquatic life.

Precautionary statement(s) Prevention

P273	Avoid release to the environment.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.	

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7758-11-4	<10	potassium phosphate, dibasic
7778-77-0	<10	potassium phosphate, monobasic
127-65-1	<1	chloramine-T
7732-18-5	>60	water
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs 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: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

- 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. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. 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. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: phosphorus oxides (POx)
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	 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 spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or waterways. 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	 Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. When handling DO NOT eat, drink or smoke. Always wash hands with soap and water after handling. Avoid physical damage to containers. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.

Protect containers against physical damage and check regularly for leaks.

Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Glass container is suitable for laboratory quantities Plastic container
Storage incompatibility	None known

X — Must not be stored together

х

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

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
potassium phosphate, dibasic	16 mg/m3	180 mg/m3		1,100 mg/m3
potassium phosphate, dibasic	13 mg/m3	140 mg/m3		830 mg/m3
potassium phosphate, monobasic	9.6 mg/m3	110 mg/m3		630 mg/m3
chloramine-T	2.8 mg/m3	31 mg/m3		190 mg/m3
Ingredient	Original IDLH		Revised IDLH	
potassium phosphate, dibasic	Not Available		Not Available	
potassium phosphate, monobasic	Not Available		Not Available	
chloramine-T	Not Available		Not Available	
water	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
potassium phosphate, dibasic	E	≤ 0.01 mg/m³
chloramine-T	E	≤ 0.01 mg/m³
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	

Exposure controls

Appropriate engineering 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 interaction provide this high level of protection. The basic types of engineering controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and we worker	tions to
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that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if

	that strategically "adds" and "removes" air in the work enviro designed properly. The design of a ventilation system must r Employers may need to use multiple types of controls to pre	match the particular process and chemical or c	
	General exhaust is adequate under normal operating conditi Correct fit is essential to obtain adequate protection. Provide contaminants generated in the workplace possess varying " fresh circulating air required to effectively remove the contar	adequate ventilation in warehouse or closed escape" velocities which, in turn, determine the	storage areas. Air
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)
	aerosols, fumes from pouring operations, intermittent cont welding, spray drift, plating acid fumes, pickling (released generation)	e 1 /	0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas	1-2.5 m/s (200-500 f/min)
	grinding, abrasive blasting, tumbling, high speed wheel ge velocity into zone of very high rapid air motion).	nerated dusts (released at high initial	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. 4: Large hood or large air mass in motion	3: High production, heavy use 4: Small hood - local control only	
		· · · · · · · · · · · · · · · · · · ·	
	Simple theory shows that air velocity falls rapidly with distan generally decreases with the square of distance from the ex- extraction point should be adjusted, accordingly, after refere the extraction fan, for example, should be a minimum of 1-2 meters distant from the extraction point. Other mechanical of apparatus, make it essential that theoretical air velocities are installed or used.	traction point (in simple cases). Therefore the nce to distance from the contaminating source m/s (200-400 f/min.) for extraction of solvents considerations, producing performance deficits	air speed at the . The air velocity at generated in a tank 2 within the extraction
Personal protection			
Eye and face protection	 No special equipment for minor exposure i.e. when handling OTHERWISE: Safety glasses with side shields. Contact lenses may pose a special hazard; soft contact document, describing the wearing of lenses or restriction include a review of lens absorption and adsorption for th Medical and first-aid personnel should be trained in their event of chemical exposure, begin eye irrigation immedia be removed at the first signs of eye redness or irritation have washed hands thoroughly. [CDC NIOSH Current In 	lenses may absorb and concentrate irritants. A is on use, should be created for each workplac e class of chemicals in use and an account of removal and suitable equipment should be re- ately and remove contact lens as soon as prace lens should be removed in a clean environme	ce or task. This should injury experience. adily available. In the ticable. Lens should ent only after workers
Skin protection	See Hand protection below		
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber 		
Body protection	See Other protection below		
Other protection	No special equipment needed when handling small quantitie OTHERWISE: • Overalls. • Barrier cream. • Eyewash unit.	·S.	

Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection	Maximum gas/vapour concentration present in air p.p.m. (by	Half-face	Full-Face	
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factor	volume)	Respirator	Respirator
up to 10	1000	AB-AUS / Class1 P2	-
up to 50	1000	-	AB-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	AB-2 P2
up to 100	10000	-	AB-3 P2
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand

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)

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	~1.0
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
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)	Not Available	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)	2.3 @ 20 C	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	Not normally a hazard due to non-volatile nature of product
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.

Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
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	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.

TOXICITY	IRRITATION	
Not Available	Not Available	
ΤΟΧΙΟΙΤΥ	IRRITATION	
Dermal (rabbit) LD50: >300 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
Inhalation(Rat) LC50; >0.83 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
Oral(Rat) LD50; >500 mg/kg ^[1]		
ΤΟΧΙΟΙΤΥ	IRRITATION	
Dermal (rabbit) LD50: >300 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
Inhalation(Rat) LC50; >0.83 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
Oral(Rat) LD50; >500 mg/kg ^[1]		
ΤΟΧΙΟΙΤΥ	IRRITATION	
Dermal (rabbit) LD50: >153.6 mg/kg ^[2]	Eye (moistened): Severe	
Inhalation(Rat) LC50; >0.004 mg/L4h ^[1]	Eye: adverse effect observed (irreversible damage) ^[1]	
Oral(Rat) LD50; >381.6 mg/kg ^[2]	Skin (moistened): Corrosive	
	Skin: adverse effect observed (corrosive) ^[1]	
ΤΟΧΙΟΙΤΥ	IRRITATION	
Oral(Rat) LD50; >90000 mg/kg ^[2]	Not Available	
1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS.		
	TOXICITY Dermal (rabbit) LD50: >300 mg/kg ^[1] Inhalation(Rat) LC50; >0.83 mg/l4h ^[1] Oral(Rat) LD50; >500 mg/kg ^[1] TOXICITY Dermal (rabbit) LD50: >300 mg/kg ^[1] Inhalation(Rat) LC50; >0.83 mg/l4h ^[1] Oral(Rat) LD50; >500 mg/kg ^[1] Oral(Rat) LD50; >500 mg/kg ^[1] TOXICITY Dermal (rabbit) LD50; >500 mg/kg ^[1] TOXICITY Dermal (rabbit) LD50; >153.6 mg/kg ^[2] Inhalation(Rat) LC50; >0.004 mg/L4h ^[1] Oral(Rat) LD50; >381.6 mg/kg ^[2] TOXICITY Oral(Rat) LD50; >90000 mg/kg ^[2]	

POTASSIUM PHOSPHATE, MONOBASIC	No data of toxicological significance identified in literature search.
CHLORAMINE-T	Somnolence, convulsions, excitement, muscle weakness, chronic pulmonary oedema, cyanosis, respiratory depression recorded. Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than others, and exposure to other irritants may aggravate symptoms. Allergy causing activity is due to interactions with proteins. Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to the high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritatin. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure to the ligh cloncentrations of irritating substance (often particles) and is completely reversible after expos
POTASSIUM PHOSPHATE, DIBASIC & WATER	No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	•	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
	Lege	end: 🗙 – Data either not avail	able or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Toxicity Endpoint Test Duration (hr) Value Species Source **Rowe Scientific Chloramine T Buffer** Not Not Not Not Available Not Available Solution Available Available Available Endpoint Test Duration (hr) Species Value Source EC50(ECx) 72h Algae or other aquatic plants >100mg/l 2 potassium phosphate, EC50 72h Algae or other aquatic plants >100mg/l 2 dibasic LC50 96h Fish >100mg/l 2 2 EC50 48h Crustacea >100mg/l Endpoint Test Duration (hr) Species Value Source EC50(ECx) 72h Algae or other aquatic plants >100mg/l 2 potassium phosphate, EC50 72h Algae or other aquatic plants >100mg/l 2 monobasic LC50 96h Fish >100mg/l 2 EC50 48h Crustacea >100mg/l 2 Test Duration (hr) Value Endpoint Species Source LC50 96h Fish 5.6mg/l 4 EC50 48h Crustacea 4.5mg/l chloramine-T 1 NOEC(ECx) 504h Crustacea 1 1.1mg/l EC50 2 96h Algae or other aquatic plants 4.5mg/l Endpoint Test Duration (hr) Species Value Source water Not Not Not Not Available Not Available Available Available Available Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity Legend: 3. EPIWIN Suite V3.12 (QSAR) - 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

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
chloramine-T	HIGH	HIGH
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
chloramine-T	LOW (LogKOW = 0.8363)

Mobility in soil

Ingredient

Mobility

Ingredient	Mobility
chloramine-T	LOW (KOC = 478.3)

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.

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

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
potassium phosphate, dibasic	Not Available
potassium phosphate, monobasic	Not Available
chloramine-T	Not Available
water	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
potassium phosphate, dibasic	Not Available
potassium phosphate, monobasic	Not Available
chloramine-T	Not Available
water	Not Available

SECTION 15 Regulatory information

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

potassium phosphate, dibasic is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

potassium phosphate, monobasic is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 $\,$

chloramine-T is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (potassium phosphate, dibasic; potassium phosphate, monobasic; chloramine-T; water)
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 (chloramine-T)
Vietnam - NCI	Yes
Russia - FBEPH	No (chloramine-T)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	14/07/2021
Initial Date	04/06/2010

SDS Version Summary

Version	Date of Update	Sections Updated
4.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
4.1.2.1	27/04/2021	Regulation Change
4.1.3.1	04/05/2021	Regulation Change
4.1.4.1	07/05/2021	Regulation Change
4.1.5.1	11/05/2021	Regulation Change
4.1.5.2	30/05/2021	Template Change
4.1.5.3	04/06/2021	Template Change
4.1.5.4	05/06/2021	Template Change
4.1.6.4	08/06/2021	Regulation Change
4.1.6.5	09/06/2021	Template Change
4.1.6.6	11/06/2021	Template Change
4.1.6.7	15/06/2021	Template Change
4.1.7.7	18/06/2021	Regulation Change
4.1.8.7	22/06/2021	Regulation Change
4.1.8.8	05/07/2021	Template Change
5.1.8.8	14/07/2021	Classification, Synonyms, Name

Ingredients with multiple cas numbers

Name	CAS No	
potassium phosphate, dibasic	7758-11-4, 16788-57-1	
chloramine-T	127-65-1, 7080-50-4, 149358-73-6, 312693-78-0	

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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