

Section 1 - Identification

Product Name <u>Phosphate Balanced Salt (PBS) Solutions</u>

Product Code CH3A069, CH3A590, CH3A591, CH3A595, CH3A645, CH3A659, SH20013,SH30028,

SH30256, SH30258, SH3A109, SH3A363, SH3A400, SH3A567,

SH3A625, SH3A627, SH3A632, SH3A648, SH3A649, SH3A657, SH3A684, SH3A685,

SH3A686, SH3A687, SH3A703, SH3A721, SH3A770, SH3A834,

SH3

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Recommended Use In vitro methods.

Uses advised against This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction. This product does not contain any substance(s) listed on the voluntary National

Code of Practice for Chemicals of Security Concern.

Section 2 - Hazard(s) Identification

Classification under Safe Work Australia

Classified as not hazardous according to criteria of Safe Work Australia.

Physical hazards

No hazards identified

Health hazards

No hazards identified

Environmental hazards

No hazards identified

<u>Label Elements</u> None required

Other information

Contains a known or suspected endocrine disruptor

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Included in the list established in accordance with Article 59(1) for having endocrine disrupting properties

Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Process water	7732-18-5	> 40
Sucrose	57-50-1	0 - 60
Sodium sulfate, anhydrous	7757-82-6	0 - 35
Sodium citrate dihydrate	6132-04-3	0 - 40
Methyl-beta-cyclodextrin	128446-36-6	0 - 10
Sodium phosphate, dibasic heptahydrate	7782-85-6	0 - 10
Sodium chloride	7647-14-5	0 - 18
Sodium phosphate, monobasic anhydrous (USP Tested)	7558-80-7	0 - 10
Sodium phosphate monobasic dihydrate	13472-35-0	0 - 10
Sodium phosphate monobasic	10049-21-5	0 - 10
Sodium phosphate dibasic dihydrate	10028-24-7	0 - 10
Sodium phosphate dibasic	7558-79-4	0 - 10
Potassium phosphate monobasic	7778-77-0	0 - 10
Potassium phosphate dibasic, anhydrous	7758-11-4	0 - 10
Potassium phosphate dibasic trihydrate	16788-57-1	0 - 10
Potassium chloride	7447-40-7	0 - 10
Amino Acids	NA	0 - 3.5
Triton X-200	9010-41-7	0 - 1
Octyl Phenol Ethoxylate (Triton X-100)	9002-93-1	0 - 1
Gelatin Type B	9000-70-8	0 - 1
EDTA 2Na 2H20	6381-92-6	0 - 1
Sulfobetaine 16 (SB3-16)	2281-11-0	0 - 0.1
Pluronic F-68 prill surfactant	9003-11-6	0 - 0.1
Tween 80	9005-65-6	0 - 0.01
Tween 20	9005-64-5	0 - 0.01

Section 4 - First Aid Measures

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Self-Protection of the First Aider No special precautions required.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

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Extinguishing media which must not be used for safety reasons

No information available.

Hazardous Decomposition Products

Oxides of phosphorus, Sodium oxides.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation.

Environmental Precautions

Should not be released into the environment.

Methods for Containment and Clean Up

Clean-up methods - small spillage

Sweep up and shovel into suitable containers for disposal.

Clean-up methods - large spillage

Not applicable, packaged goods.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Ensure adequate ventilation.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Exposure limits

AUS - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)]

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

ACGIH - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

UK - EH40/2005 Work Exposure Limits, Fourth edition, Published 2020.

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

	Component	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany
ı	Sucrose	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	STEL: 20 mg/m ³ 15 min	
		_		_	TWA: 10 mg/m ³ 8 hr	

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Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Exposure Controls Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard

AS/NZS 1337 - Eye protectors for Industrial applications)

Hand Protection Protective gloves

Glove	e material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
1	ral rubber	See manufacturers	-	AS/NZS 2161	(minimum requirement)
Nitril	le rubber	recommendations			
Ne	oprene				
	PVC				

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices

Recommended Filter type: Particle filter (or AUS/NZ equivalent)

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Clear, Colorless

Physical State Liquid

Odor No information available

Odor Threshold No data available

pH 4 - 10

Melting Point/RangeNo data availableSoftening PointNo data availableBoiling Point/Range200 °C / 392 °F

Flash Point Not applicable Method - No information available

Evaporation Rate No data available Flammability (solid,gas) Not applicable

Flammability (solid,gas)

Not applicable

Liquid

Explosion Limits

No data available

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(Air = 1.0)

Liquid

Vapor Pressure No data available

Vapor Density

No data available

Specific Gravity / Density

No data available

Bulk Density

Not applicable

Water Solubility
Solubility in other solvents
No information available
No information available

Partition Coefficient (n-octanol/water)

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data available

Explosive Properties No information available Oxidizing Properties No information available

Other information

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products, Excess heat.

Incompatible Materials Strong acids, Strong bases.

Hazardous Decomposition Products Oxides of phosphorus. Sodium oxides.

Hazardous Polymerization Hazardous polymerization does not occur.

Section 11 - Toxicological Information

Information on Toxicological Effects

Product Information No acute toxicity information is available for this product

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

Toxicology data for the components

Component LD50 Oral		LD50 Dermal	LC50 Inhalation
Process water	LD50 > 90 mL/kg (Rat)		
Sucrose	LD50 = 29700 mg/kg (Rat)		
Sodium sulfate, anhydrous	LD50 > 10000 mg/kg (Rat)		LC50 > 2.4 mg/L (Rat) 4 h
Sodium chloride	LD50 = 3 g/kg (Rat)	LD50 > 10000 mg/kg (Rabbit)	LC50 > 42 mg/L (Rat) 1 h
Sodium phosphate, monobasic anhydrous (USP Tested)	LD50 = 8290 mg/kg (Rat)	LD50 > 7940 mg/kg (Rabbit)	LC50 > 0.83 mg/L (Rat) 4 h
Sodium phosphate dibasic	LD50 = 17 g/kg (Rat)		
Potassium phosphate monobasic	LD50 = 3200 mg/kg (Rat)		LC50 > 0.83 mg/L (Rat) 4 h
Potassium phosphate dibasic, anhydrous		LD50 > 5000 mg/kg (Rabbit)	
Potassium chloride	LD50 = 2600 mg/kg (Rat)		

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Octyl Phenol Ethoxylate (Triton X-100)	LD50 = 1800 mg/kg (Rat)	
Pluronic F-68 prill surfactant	LD50 = 16 g/kg (Rat) LD50 = 5700 mg/kg (Rat)	LC50 = 320 mg/m ³ (Rat) 4 h
Tween 80	LD50 = 34500 μL/kg (Rat)	
Tween 20	LD50 = 37000 mg/kg (Rat)	LC50 > 5.1 mg/L (Rat) 4 h

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target OrgansNo information available.

(j) aspiration hazard; No data available

Other Adverse Effects The toxicological properties have not been fully investigated.

Symptoms / effects,both acute and No information available delayed

Section 12 - Ecological Information

Ecotoxicity effects Do not empty into drains. .

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Sodium sulfate, anhydrous	96h (Lepomis macrochirus) LC50: 3040 - 4380 mg/L, 96h static (Lepomis macrochirus) LC50: > 6800 mg/L, 96h static (Pimephales promelas) LC50: 13500 - 14500 mg/L, 96h (Pimephales promelas)			
Sodium chloride	LC50: 6420 - 6700 mg/L, 96h static (Pimephales promelas)	EC50: 340.7 - 469.2 mg/L, 48h Static (Daphnia magna)		

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	LC50: 4747 - 7824	EC50: = 1000 mg/L, 48h		
	mg/L, 96h flow-through	(Daphnia magna)		
	(Oncorhynchus mykiss)			
	LC50: 6020 - 7070			
	mg/L, 96h static			
	(Pimephales promelas)			
	LC50: = 12946 mg/L,			
	96h static (Lepomis			
	macrochirus)			
	LC50: 5560 - 6080			
	mg/L, 96h flow-through			
	(Lepomis macrochirus)			
	LC50: = 7050 mg/L, 96h	I I		
	semi-static (Pimephales			
	promelas)			
Potassium chloride	LC50: = 1060 mg/L, 96h		EC50: = 2500 mg/L, 72h	
	static (Lepomis	Static (Daphnia magna)	(Desmodesmus	
	macrochirus)	EC50: = 825 mg/L, 48h	subspicatus)	
	LC50: 750 - 1020 mg/L,	(Daphnia magna)		
	96h static (Pimephales			
	promelas)			
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Persistence and Degradability Bioaccumulative Potential

No information available No information available

Mobility

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Octyl Phenol Ethoxylate (Triton X-100)	Group III Chemical		

Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected substance This product does not contain any known or suspected substance

Section 13 - Disposal Considerations

Waste from Residues/Unused Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

Other Information

Chemical wastes should be disposed through a licensed commercial waste collection service

Section 14 - Transport Information

IMDG/IMO Not regulated

ADG Not regulated

<u>IATA</u> Not regulated

Environmental hazards No hazards identified

Special Precautions No special precautions required

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Additional information

None known

Section 15 - Regulatory Information

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

National Regulations

Australia

See section 8 for national exposure control parameters.

Standard for the Uniform Scheduling of Medicines and Poisons

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

Component	Standard for the Uniform Scheduling of Medicines and Poisons
Sodium citrate dihydrate - 6132-04-3	Schedule 5 listed - being the Carbonate, Silicate or Phosphate salts of Sodium or Potassium alone or in any combination: in solid orthodontic device cleaning preparations as an in-use aqueous solution; in solid automatic dishwashing preparations in a 500 g/L aqueous solution or mixture but with pH <=12.5; in other solid preparations in a 10 g/L aqueous solution, or in liquid or semi-solid preparations, unless in food additive preparations for domestic use, or in automatic dish washing preparations for domestic use with a pH >12.5; except when separately specified in these Schedules
Sodium phosphate, dibasic heptahydrate - 7782-85-6	Schedule 5 listed - being the Carbonate, Silicate or Phosphate salts of Sodium or Potassium alone or in any combination: in solid orthodontic device cleaning preparations as an in-use aqueous solution; in solid automatic dishwashing preparations in a 500 g/L aqueous solution or mixture but with pH <=12.5;in other solid preparations in a 10 g/L aqueous solution, or in liquid or semi-solid preparations, unless in food additive preparations for domestic use, or in automatic dish washing preparations for domestic use with a pH >12.5;except when separately specified in these Schedules
Sodium phosphate dibasic dihydrate - 10028-24-7	Schedule 5 listed - being the Carbonate, Silicate or Phosphate salts of Sodium or Potassium alone or in any combination: in solid orthodontic device cleaning preparations as an in-use aqueous solution; in solid automatic dishwashing preparations in a 500 g/L aqueous solution or mixture but with pH <=12.5; in other solid preparations in a 10 g/L aqueous solution, or in liquid or semi-solid preparations, unless in food additive preparations for domestic use, or in automatic dish washing preparations for domestic use with a pH >12.5; except when separately specified in these Schedules
Sodium phosphate dibasic - 7558-79-4	Schedule 5 listed - being the carbonate, silicate or phosphate salts of sodium or potassium alone or in any combination: in solid orthodontic device cleaning preparations, the pH of which as an in-use aqueous solution is >11.5, in solid automatic dishwashing preparations, the pH of which in a 500 g/L aqueous solution or mixture is >11.5 but <=12.5;in other solid preparations, the pH of which in a 10 g/L aqueous solution is >11.5, or in liquid or semi-solid preparations, the pH of which is >11.5, unless: in food additive preparations for domestic use, or in automatic dish washing preparations for domestic use with a pH >12.5;except when separately specified in these Schedules Schedule 5 listed - being the Carbonate, Silicate or Phosphate salts of Sodium or Potassium alone or in any combination: in solid orthodontic device cleaning preparations as an in-use aqueous solution;in solid automatic dishwashing preparations in a 500 g/L aqueous solution or mixture but with pH <=12.5;in other solid preparations in a 10 g/L aqueous solution, or in liquid or semi-solid preparations, unless in food additive preparations for domestic use, or in automatic dish washing preparations for domestic use with a pH >12.5;except when separately specified in these Schedules Schedule 6 listed - being the carbonate, silicate or phosphate salts of sodium or potassium alone or in any combination for non-domestic use: in solid automatic dishwashing preparations, the pH of which in a 500 g/L aqueous solution or mixture is >12.5, or in liquid or semi-solid automatic dishwashing preparations, the pH of which is >12.5
Potassium phosphate monobasic - 7778-77-0	Schedule 10 listed
Potassium phosphate dibasic, anhydrous - 7758-11-4	Schedule 5 listed - being the carbonate, silicate or phosphate salts of sodium or potassium alone or in any combination: in solid orthodontic device cleaning preparations, the pH of which as an in-use aqueous solution is >11.5, in solid automatic dishwashing preparations, the pH of which in a 500 g/L aqueous solution or mixture is >11.5 but <=12.5;in other solid preparations, the pH of which in a 10 g/L aqueous solution is >11.5, or in liquid or semi-solid preparations, the pH of which is >11.5, unless: in food additive preparations for domestic use, or in automatic dish washing preparations for domestic use with a pH >12.5;except when separately specified in these Schedules Schedule 5 listed - being the Carbonate, Silicate or Phosphate salts of Sodium or Potassium alone or in any combination: in solid orthodontic device cleaning preparations as an in-use aqueous solution;in solid automatic dishwashing preparations in a 500 g/L aqueous solution or mixture but with pH <=12.5;in other solid preparations in a 10 g/L aqueous solution, or in liquid or semi-solid preparations, unless in food additive preparations for domestic use, or in automatic dish washing preparations for domestic use with a pH >12.5;except when separately specified in these Schedules

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	Schedule 6 listed - being the carbonate, silicate or phosphate salts of sodium or potassium alone or in any combination for non-domestic use: in solid automatic dishwashing preparations, the pH of which in a 500 g/L aqueous solution or mixture is >12.5, or in liquid or semi-solid automatic dishwashing preparations, the pH of which is >12.5 Schedule 10 listed
Potassium chloride - 7447-40-7	Schedule 4 listed - in oral preparations for human therapeutic use except: a) when containing <=550 mg of Potassium chloride per dosage unit, b) in preparations for oral rehydration therapy, c) in preparations for oral use for bowel cleansing prior to diagnostic medical and surgical procedures, or d) in preparations for enteral feeding

Australian Industrial Chemicals Introduction Scheme (AICIS)

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Process water - 7732-18-5	Present	-
Sucrose - 57-50-1	Present	-
Sodium sulfate, anhydrous - 7757-82-6	Present	-
Sodium citrate dihydrate - 6132-04-3	Present	-
Methyl-beta-cyclodextrin - 128446-36-6	Present	-
Sodium phosphate, dibasic heptahydrate - 7782-85-6	Present	-
Sodium chloride - 7647-14-5	Present	-
Sodium phosphate, monobasic anhydrous (USP Tested) - 7558-80-7	Present	-
Sodium phosphate monobasic dihydrate - 13472-35-0	Present	-
Sodium phosphate monobasic - 10049-21-5	Present	-
Sodium phosphate dibasic dihydrate - 10028-24-7	Present	-
Sodium phosphate dibasic - 7558-79-4	Present	-
Potassium phosphate monobasic - 7778-77-0	Present	-
Potassium phosphate dibasic, anhydrous - 7758-11-4	Present	-
Potassium phosphate dibasic trihydrate - 16788-57-1	Present	-
Potassium chloride - 7447-40-7	Present	-
Octyl Phenol Ethoxylate (Triton X-100) - 9002-93-1	Present	-
Gelatin Type B - 9000-70-8	Present	-
EDTA 2Na 2H20 - 6381-92-6	Present	-
Pluronic F-68 prill surfactant - 9003-11-6	Present	-
Tween 80 - 9005-65-6	Present	-
Tween 20 - 9005-64-5	Present	-

Australian - Illicit Drug Precursors/Reagents Substance List

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

Chemicals of Security Concern

This product does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

National pollutant inventory Not applicable

Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction.

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International Inventories

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	ISHL	IECSC	KECL
Process water	Х	Х	231-791-2	-	Х	Х	-	Х	Х		Х	KE-35400
Sucrose	Х	Х	200-334-9	-	Х	Х	-	Х	-	Х	Х	KE-17258
Sodium sulfate, anhydrous	Х	Х	231-820-9	-	Х	Х	-	Х	Х	Х	Х	KE-31609
Sodium citrate dihydrate	Χ	Х	-	-	-	-	-	Х	Х		Х	-
Methyl-beta-cyclodextr in	Х	Х	-	411-120- 1	Х	Х	-	Х	Х		Х	99-3-1190
Sodium phosphate, dibasic heptahydrate	Х	Х	-	-	-	-	-	Х	Х		Х	-
Sodium chloride	Х	X	231-598-3	-	Χ	Х	-	Х	Х	Х	Х	KE-31387
Sodium phosphate, monobasic anhydrous (USP Tested)	Х	Х	231-449-2	-	Х	Х	-	Х	Х	Х	Х	KE-31577
Sodium phosphate monobasic dihydrate	Х	Х	-	-	-	-	-	Х	Х		Х	-
Sodium phosphate monobasic	Х	Х	-	-	-	-	-	Х	Х		Х	-
Sodium phosphate dibasic dihydrate	Х	Х	-	-	-	-	-	Х	Х		Х	-
Sodium phosphate dibasic	Х	Х	231-448-7	-	Х	Х	-	Х	Х	Х	Х	KE-12344
Potassium phosphate monobasic	Х	Х	231-913-4	-	Х	Х	-	Х	Х	Х	Х	KE-28622
Potassium phosphate dibasic, anhydrous	Х	Х	231-834-5	-	Х	Х	-	Х	Х	Х	Х	KE-12167
Potassium phosphate dibasic trihydrate	Х	X	-	-	=	-	-	Х	-		Х	ı
Potassium chloride	X	X	231-211-8	-	Χ	Х	-	Х	X	Χ	Х	KE-29086
Octyl Phenol Ethoxylate (Triton X-100)		Х	-	-	Х	Х	-	Х	Х	Х	Х	KE-33568
Gelatin Type B	Х	X	232-554-6	-	Х	Х	-	Х	Х	Х	Х	KE-17574
EDTA 2Na 2H20	Χ	X	-	-	-	Х	-	Χ	-		Х	-
Sulfobetaine 16 (SB3-16)	-	-	218-918-7	-	-	-	-	-	Х	Х	Х	-
Pluronic F-68 prill surfactant	Х	Х	-	-	Х	Х	-	Х	Х	Х	Х	KE-24574
Tween 80	Х	Х	-	-	Х	Х	-	Χ	Х	Χ	Х	KE-25511
Tween 20	X	X	-	-	X	Х	-	Χ	Х	Χ	Х	KE-31681

Legend: X - Listed. '-' - Not Listed. PMN - Indicates a commenced PMN substance. XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B). **KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

International Regulations

Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

Basel convention on the control of transboundary movements of hazardous wastes and their dispoal Not applicable.

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Component	CAS No	OECD HPV	Restriction of Hazardous Substances (RoHS)	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Process water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Sucrose	57-50-1	Listed	Not applicable	Not applicable	Not applicable
Sodium sulfate, anhydrous	7757-82-6	Listed	Not applicable	Not applicable	Not applicable
Sodium citrate dihydrate	6132-04-3	Not applicable	Not applicable	Not applicable	Not applicable
Methyl-beta-cyclodextrin	128446-36-6	Not applicable	Not applicable	Not applicable	Not applicable
Sodium phosphate, dibasic heptahydrate	7782-85-6	Not applicable	Not applicable	Not applicable	Not applicable
Sodium chloride	7647-14-5	Listed	Not applicable	Not applicable	Not applicable
Sodium phosphate, monobasic anhydrous (USP Tested)	7558-80-7	Listed	Not applicable	Not applicable	Not applicable
Sodium phosphate monobasic dihydrate	13472-35-0	Listed	Not applicable	Not applicable	Not applicable
Sodium phosphate monobasic	10049-21-5	Not applicable	Not applicable	Not applicable	Not applicable
Sodium phosphate dibasic dihydrate	10028-24-7	Not applicable	Not applicable	Not applicable	Not applicable
Sodium phosphate dibasic	7558-79-4	Listed	Not applicable	Not applicable	Not applicable
Potassium phosphate monobasic	7778-77-0	Listed	Not applicable	Not applicable	Not applicable
Potassium phosphate dibasic, anhydrous	7758-11-4	Listed	Not applicable	Not applicable	Not applicable
Potassium phosphate dibasic trihydrate	16788-57-1	Not applicable	Not applicable	Not applicable	Not applicable
Potassium chloride	7447-40-7	Listed	Not applicable	Not applicable	Not applicable
Amino Acids	NA	Not applicable	Not applicable	Not applicable	Not applicable
Triton X-200	9010-41-7	Not applicable	Not applicable	Not applicable	Not applicable
Octyl Phenol Ethoxylate (Triton X-100)	9002-93-1	Not applicable	Not applicable	Not applicable	Not applicable
Gelatin Type B	9000-70-8	Listed	Not applicable	Not applicable	Not applicable
EDTA 2Na 2H20	6381-92-6	Not applicable	Not applicable	Not applicable	Not applicable
Sulfobetaine 16 (SB3-16)	2281-11-0	Not applicable	Not applicable	Not applicable	Not applicable
Pluronic F-68 prill surfactant	9003-11-6	Listed	Not applicable	Not applicable	Not applicable
Tween 80	9005-65-6	Not applicable	Not applicable	Not applicable	Not applicable
Tween 20	9005-64-5	Not applicable	Not applicable	Not applicable	Not applicable

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV -	REACH (1907/2006) - Annex XVII -	REACH Regulation (EC
	Substances Subject to	Restrictions on Certain Dangerous	1907/2006) article 59 - Candidate
	Authorization	Substances	List of Substances of Very High
			Concern (SVHC)
Octyl Phenol Ethoxylate (Triton	Endocrine disrupting properties	=	SVHC Candidate list - 618-344-0 -
X-100)	(Article 57(f) - environment)		Endocrine disrupting properties,
	Application date: July 4, 2019		Article 57f - environment
	Sunset date: January 4, 2021		
	Exemption - extended latest		
	application and sunset date for the		
	research,development and		
	production of medicinal products or		
	medical devices in view of their use		
	for the diagnosis,treatment or		
	prevention of the coronavirus disease		
	(COVID-19)		

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list https://echa.europa.eu/candidate-list-table

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Section 16 - Other Information

Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic

Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air

Transport Association

MARPOL - International Convention for the Prevention of Pollution from

NZS 5433:2020 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit

DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical

Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

Predicted No Effect Concentration (PNEC)

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

ADG - Australian Code for the Transport of Dangerous Goods by Road

and Rail

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50% ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment

NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date 14-Jul-2023

Update to GHS format. **Revision Summary**

This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

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