

Safety Data Sheet

SUMA BREAK UP

Revision: 2018-12-19 **Version:** 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: SUMA BREAK UP

1.2 Recommended use and restrictions on use

Identified uses: Degreaser

Restrictions of use:

Uses other than those identified are not recommended

1.3 Details of the supplier

Diversey Australia Pty. Limited 29 Chifley St, Smithfield, NSW, 2164, Australia Telephone: 1800 647 779 (toll free)

Fax: (02) 9725 5767

Email: aucustserv@diversey.com Website: www.diversey.com/

1.4 Emergency telephone number

Call 1800 033 111 (24hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Serious eye damage, Category 1 Skin irritation, Category 2

2.2 Label elements



Signal word: Danger

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Prevention statement(s):

P233 - Keep container tightly closed.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear protective gloves, protective clothing and eye or face protection.

Response statement(s):

P332 + P313 - If skin irritation occurs: Get medical advice or attention.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P310 - Immediately call a POISON CENTRE, doctor or physician.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P362 - Take off contaminated clothing.

Disposal statement(s):

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

2.4 Classification diluted product:

Recommended maximum concentration (%): 2.5

Not classified as hazardous

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Weight
			percent
disodium metasilicate	6834-92-0	229-912-9	3-10
sodium xylene sulphonate	1300-72-7	215-090-9	3-10
potassium carbonate	584-08-7	209-529-3	3-10
2-butoxyethanol	111-76-2	203-905-0	1-3
tetrapotassium pyrophosphate	7320-34-5	230-785-7	1-3

[4] Polymer.

Non-hazardous ingredients are the remainder and add up to 100%.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if

you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice

or attention.

Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE,

doctor or physician.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious

person. Get medical attention or advice if you feel unwell.

Self-protection of first aider:Consider personal protective equipment as indicated in subsection 8.2. **First aid facilities:**Eyewash facilities should be considered in a workplace where necessary.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: Causes irritation.

Eye contact: Causes severe or permanent damage. **Ingestion:** No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

Poison Information Center: Call 13 11 26 (Australia Wide).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

5.4 Hazchem code

None allocated

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Ingredient(s)	Long term value(s) (TWA)	Short term value(s) (STEL)	Peak value(s)
2-butoxyethanol	20 ppm	50 ppm	
	96.9 mg/m ³	242 mg/m ³	

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin

contact, the personal protection equipment as described in this section is not required.

Avoid direct contact and/or splashes where possible. Train personnel. Appropriate organisational controls:

Personal protective equipment

Eye / face protection: Hand protection:

Body protection:

Safety glasses or goggles (EN 166).

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such

as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material

thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may

occur (EN 14605). No special requirements under normal use conditions. Respiratory protection:

Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 2.5

Appropriate engineering controls: No special requirements under normal use conditions. Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions. Hand protection: No special requirements under normal use conditions. **Body protection:** No special requirements under normal use conditions. Respiratory protection: No special requirements under normal use conditions.

No special requirements under normal use conditions. **Environmental exposure controls:**

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State: Liquid Colour: Clear, Pale Yellow Odour: Product specific Odour threshold: Not applicable

pH: ≈ 13.3 (neat)

Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Flammability (liquid): Not flammable. Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined

Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Vapour pressure: Not determined Vapour density: Not determined Relative density: ≈ 1.11 (20 °C)

Solubility in / Miscibility with Water: Fully miscible

Partition coefficient: n-octanol/water No information available. Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

Viscosity: Not determined

Explosive properties: Not explosive. Oxidising properties: Not oxidising

9.2 Other information

Surface tension (N/m): Not determined Corrosion to metals: Not corrosive

Method / remark

ISO 4316

Not relevant to classification of this product

Not relevant to classification of this product

Not relevant to classification of this product

OECD 109 (EU A.3)

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

Reacts with acids.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000 ATE - Dermal (mg/kg): >2000

ATE - Inhalatory, vapours (mg/l): 390

Skin irritation and corrosivity

Result: Skin irritant 2 Method: Alkali or acid reserve

Substance data, where relevant and available, are listed below:.

Acute toxicity Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
disodium metasilicate	LD 50	770 - 820	Mouse	Method not given	
sodium xylene sulphonate	LD 50	> 7200	Rat	OECD 401 (EU B.1)	
potassium carbonate	LD 50	> 2000	Rat	Method not given	
2-butoxyethanol	LD 50	1746	Rat	Method not given	
tetrapotassium pyrophosphate	LD 50	> 2000	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
disodium metasilicate		No data available			
sodium xylene sulphonate	LD 50	> 2000	Rabbit	EPA OPPTS 870.1200	
potassium carbonate	LD 50	> 2000	Rabbit	Method not given	
2-butoxyethanol	LD 50	6411		Method not given	
tetrapotassium pyrophosphate	LD 50	> 2000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate		No data available			
sodium xylene sulphonate	LC ₀	> 6.41 (mist)	Rat	Method not given	4
potassium carbonate	LC 50	No mortality observed		EPA OPP 81-3	
2-butoxyethanol	LC 50	> 2 (mist) No mortality observed	Rat	Method not given	4
tetrapotassium pyrophosphate	LC 50	> 1.1	Rat	Method not given	4

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	Corrosive		Method not given	
sodium xylene sulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
potassium carbonate	Irritant		Weight of evidence	
2-butoxyethanol	Irritant	Rabbit	OECD 404 (EU B.4)	24; 48; 72 hour(s)
tetrapotassium pyrophosphate	Not irritant		Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	Corrosive		Method not given	
sodium xylene sulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
potassium carbonate	Irritant	Rabbit	OECD 405 (EU B.5)	
2-butoxyethanol	Irritant	Rabbit	OECD 405 (EU B.5)	24; 48; 72 hour(s)
tetrapotassium pyrophosphate	Irritant		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	No data available			
sodium xylene sulphonate	No data available			
potassium carbonate	No data available			
2-butoxyethanol	No data available			
tetrapotassium pyrophosphate	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
disodium metasilicate	No data available			
sodium xylene sulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
potassium carbonate	Not sensitising	Guinea pig	Method not given	
2-butoxyethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
tetrapotassium pyrophosphate	Not sensitising		Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	No data available			
sodium xylene sulphonate	No data available			
potassium carbonate	No data available			
2-butoxyethanol	No data available			
tetrapotassium pyrophosphate	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity Ingredient(s) Result (in-vitro) Result (in-vivo) Method Method (in-vivo) (in-vitro) disodium metasilicate No data available No data available sodium xylene sulphonate No evidence for mutagenicity, negative OECD 473 No evidence for mutagenicity, negative OECD 474 (EU B.12) test results test results potassium carbonate No evidence for mutagenicity, negative OECD 471 (EU No data available test results B.12/13) OECD 473 2-butoxyethanol No evidence for mutagenicity, negative OECD 471 (EU No evidence for mutagenicity, negative OECD 474 (EU test results B.12/13) OECD test results B.12) 476 (Chinese Hamster Ovary) tetrapotassium pyrophosphate No data available No data available

Carcinogenicity

Carolinogerilary	
Ingredient(s)	Effect
disodium metasilicate	No data available
sodium xylene sulphonate	No evidence for carcinogenicity, negative test results
potassium carbonate	No data available
2-butoxyethanol	No evidence for carcinogenicity, negative test results
tetrapotassium pyrophosphate	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
disodium metasilicate			No data available				
sodium xylene sulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test		
potassium carbonate	NOAEL	Teratogenic effects	180	Rat	Not known		
2-butoxyethanol			No data available				
tetrapotassium pyrophosphate			No data available				

Repeated dose toxicity

Sub-acute of Sub-critoriic oral toxicity						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
disodium metasilicate	NOAEL	> 227 - 237	Rat	Method not		
				given		
sodium xylene sulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU	90	
				B.26)		
potassium carbonate	NOAEL	6054	Rat	Method not	28	
•				given		
2-butoxyethanol		No data				
•		available				
tetrapotassium pyrophosphate	NOAEL	No data	Rat	OECD 408 (EU	90 days	
		available		B.26)	· ·	

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
disodium metasilicate		No data				
		available				
sodium xylene sulphonate	NOAEL	> 440		OECD 411 (EU	90	
·				B.28)		

potassium carbonate	No data available		
2-butoxyethanol	No data		
	available		
tetrapotassium pyrophosphate	No data		
	available		

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
disodium metasilicate		No data				
		available				
sodium xylene sulphonate		No data				
		available				
potassium carbonate	NOAEL	0.06	Rat	Read across	21	
2-butoxyethanol		No data				
•		available				
tetrapotassium pyrophosphate		No data				
		available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
disodium metasilicate	Toute		No data available			time	organs anected	
sodium xylene sulphonate	Oral		No data available	Rat	OECD 453 (EU B.33)	24 month(s)	No adverse effects observed	
potassium carbonate	Oral	NOAEL	2667	Rat	Read across	32 month(s)		
2-butoxyethanol			No data available					
tetrapotassium pyrophosphate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
disodium metasilicate	No data available
sodium xylene sulphonate	No data available
potassium carbonate	No data available
2-butoxyethanol	No data available
tetrapotassium pyrophosphate	No data available

STOT-repeated exposure

5101-lepeated exposure	
Ingredient(s)	Affected organ(s)
disodium metasilicate	No data available
sodium xylene sulphonate	No data available
potassium carbonate	No data available
2-butoxyethanol	No data available
tetrapotassium pyrophosphate	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate	LC 50	210	Brachydanio rerio	Method not given	96
sodium xylene sulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96
potassium carbonate	LC 50	68	Oncorhynchus mykiss	Method not given	96
2-butoxyethanol	LC 50	> 100	Oncorhynchus mykiss	OECD 203, static	96
tetrapotassium pyrophosphate	LC 50	> 100	Oncorhynchus	OECD 203 (EU C.1)	96

	mykiss	

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate	EC 50	1700	Daphnia	Method not given	48
sodium xylene sulphonate	EC 50	> 1000	Daphnia	EPA-OPPTS 850.1010	48
potassium carbonate	EC 50	200	Daphnia pulex	Method not given	48
2-butoxyethanol	EC 50	> 100	Daphnia magna Straus	OECD 202, static	48
tetrapotassium pyrophosphate	EC 50	> 100	Daphnia magna Straus	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate	EC 50	207	Chlorella pyrenoidosa	Method not given	72
sodium xylene sulphonate	EC 50	> 230	Not specified	EPA OPPTS 850.5400	96
potassium carbonate		No data available			-
2-butoxyethanol	EC 50	> 100	Pseudokirchner iella subcapitata	OECD 201, static	72
tetrapotassium pyrophosphate		No data available			-

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
disodium metasilicate		No data available			-
sodium xylene sulphonate		No data available			-
potassium carbonate		No data available			-
2-butoxyethanol		No data available			-
tetrapotassium pyrophosphate		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
disodium metasilicate	EC 50	> 100	Activated sludge	Method not given	3 hour(s)
sodium xylene sulphonate	Er C 50	> 1000	Activated sludge	OECD 209	3 hour(s)
potassium carbonate		No data available			
2-butoxyethanol	EC ₀	700	Pseudomonas putida	Method not given	16 hour(s)
tetrapotassium pyrophosphate		No data available			

Aquatic long-term toxicity
Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
disodium metasilicate		No data available				
sodium xylene sulphonate		No data available				
potassium carbonate		No data available				
2-butoxyethanol	NOEC	> 100	Danio rerio	OECD 204	21 day(s)	
tetrapotassium pyrophosphate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
disodium metasilicate		No data available				
sodium xylene sulphonate		No data available				
potassium carbonate		No data available				
2-butoxyethanol	NOEC	100	Daphnia magna	OECD 211	21 day(s)	

tetrapotassium pyrophosphate	No data available		

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate		No data available			-	
sodium xylene sulphonate		No data available			-	
potassium carbonate		No data available			-	
2-butoxyethanol		No data available			-	
tetrapotassium pyrophosphate		No data available			-	

Terrestrial toxicityTerrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate		No data available			-	
sodium xylene sulphonate		No data available			-	
potassium carbonate		No data available			-	
2-butoxyethanol		No data available			-	
tetrapotassium pyrophosphate		No data available			-	

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - plants, if available.	1				1- 1	
Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate		No data available			-	
sodium xylene sulphonate		No data available			-	
potassium carbonate		No data available			-	
2-butoxyethanol		No data available			-	
tetrapotassium pyrophosphate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate		No data			-	
		available				
sodium xylene sulphonate		No data			-	
		available				
potassium carbonate		No data			-	
		available				
2-butoxyethanol		No data			-	
		available				
tetrapotassium pyrophosphate		No data			-	
		available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate		No data available			-	
sodium xylene sulphonate		No data available			-	
potassium carbonate		No data available			-	
2-butoxyethanol		No data available			-	
tetrapotassium pyrophosphate		No data			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				

disodium metasilicate	No data	-	
	available		
sodium xylene sulphonate	No data	-	
	available		
potassium carbonate	No data	-	
	available		
2-butoxyethanol	No data	-	
	available		
tetrapotassium pyrophosphate	No data	-	
	available		

12.2 Persistence and degradability Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
disodium metasilicate					Not applicable (inorganic substance)
sodium xylene sulphonate			99.8 % in 28 day(s)	OECD 301F	Readily biodegradable
potassium carbonate					Not applicable (inorganic substance)
2-butoxyethanol		CO ₂ production	90.4 % in 28 day(s)	OECD 301B	Readily biodegradable
tetrapotassium pyrophosphate					Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potentialPartition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
disodium metasilicate	No data available			
sodium xylene sulphonate	-3.12	Method not given	No bioaccumulation expected	
potassium carbonate	No data available		No bioaccumulation expected	
2-butoxyethanol	0.81	OECD 107	Low potential for bioaccumulation	
tetrapotassium pyrophosphate	-2	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
disodium metasilicate	No data available				
sodium xylene sulphonate	No data available				
potassium carbonate	No data available				
2-butoxyethanol	No data available				
tetrapotassium pyrophosphate	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
disodium metasilicate	No data available				
sodium xylene sulphonate	No data available				
potassium carbonate	No data available				Potential for mobility in soil, soluble in water
2-butoxyethanol	No data available				Potential for mobility in soil, soluble in water
tetrapotassium pyrophosphate	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused

products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging

material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Recommendation: Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

ADG, IMO/IMDG, ICAO/IATA

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods **14.3 Transport hazard class(es)**: Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods
14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

Other relevant information: Hazchem code: None allocated

SECTION 15: Regulatory information

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

National regulations Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by

Safework Australia.

Poison schedule Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling

of Medicines and Poisons (SUSMP).

Classification Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by

Safework Australia.

Inventory listing(s) AICS (Australian Inventory of Chemical Substances): All components are listed on AICS, or are

exempt.

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS31000866 **Version:** 01.0 **Revision:** 2018-12-19

Additional information:

Respirators: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

Work practices - solvents: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

Exposure standards - Time Weighted Average (TWA) or Workplace Exposure Standard (WES) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

Personal protective equipment guidelines: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Health effects from exposure: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Safety Data Sheet which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations and acronyms:

- DNEL Derived No Effect Limit
- AUH GHS Specific hazard statement
- PNEC Predicted No Effect Concentration
- ATE Acute Toxicity Estimate

- LD50 Lethal Dose, 50% / Median Lethal dose LC50 Lethal Concentration, 50% / Median Lethal Concentration EC50 effective concentration, 50%

- NOEL No observed effect level

 NOAEL No observed adverse effect level

 STOT-RE Specific target organ toxicity (repeated exposure)

 STOT-SE Specific target organ toxicity (single exposure)

 EC No. European Community Number

 OECD Organization for Economic Cooperation and Development

End of Safety Data Sheet