

SUN PLATINUM-ECO DISHWASHER TABLETS

Revision: 2016-05-13

Version: 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name SUN PLATINUM-ECO DISHWASHER TABLETS

Sun is a registered trade mark and is used under licence of Unilever

1.2 Recommended use and restrictions on use

Identified uses:

Dishwasher tablets

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@sealedair.com

Website: <http://www.sealedair.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 irritation, Category 2

2.2 Label elements



Signal word: Warning

Hazard statements:

H319 - Causes serious eye irritation.

Prevention statement(s):

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

Response statement(s):

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 or attention.

Disposal statement(s):

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Classification	Weight percent
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SUN PLATINUM-ECO DISHWASHER TABLETS

Sodium citrate	6132-04-3		Eye Irrit. 2 (H319)	30-60
sodium carbonate	497-19-8	207-838-8	Eye Irrit. 2 (H319)	10-30
sodium percarbonate	15630-89-4	239-707-6	Ox. Sol. 2 (H272) Acute Tox. 4 (H302) Eye Dam. 1 (H318)	10-30
alkyl alcohol alkoxylate	68439-51-0	Polymer*	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319)	1-3
disodium trisilicate	1344-09-8	215-687-4	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	1-3
subtilisin	9014-01-1	232-752-2	Acute Tox. 4 (H302) STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Resp. Sens. 1 (H334)	0.1-1
amylase, alpha-	9000-90-2	232-565-6	Resp. Sens. 1 (H334)	0.1-1

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

* Polymer.

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

For the full text of the H and AUH phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	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. If irritation occurs and persists, get medical attention.
Ingestion:	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:	No known effects or symptoms in normal use.
Eye contact:	Causes severe irritation.
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

No special measures required.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Collect mechanically.

SUN PLATINUM-ECO DISHWASHER TABLETS

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 advised by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Avoid contact with eyes. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

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

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:

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:

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

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.

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

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Method / remark**

Physical State: Solid
Appearance: Tablets
Colour: Opaque, White
Odour: Product specific
Odour threshold: Not applicable
pH: Not applicable. (neat)
Dilution pH: ≈ 10 (50%)
Melting point/freezing point (°C): Not determined
Initial boiling point and boiling range (°C): Not determined
Flash point (°C): Not applicable.
Sustained combustion: Not applicable.
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Upper/lower flammability limit (%): Not determined

SUN PLATINUM-ECO DISHWASHER TABLETS

Vapour pressure: Not determined
Vapour density: Not determined
Relative density: Not determined
Solubility in / Miscibility with Water: Soluble
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 applicable to solids or gases

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

None known under normal use conditions. 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): 4800

Eye irritation and corrosivity

Result: Eye irritant 2A **Method:** Bridging

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)
Sodium citrate		No data available			
sodium carbonate	LD ₅₀	2800	Rat	Method not given	
sodium percarbonate	LD ₅₀	1034	Rat	Method not given	
alkyl alcohol alkoxylate		No data available			
disodium trisilicate	LD ₅₀	3400	Rat	Method not given	
subtilisin	LD ₅₀	1800	Rat	OECD 401 (EU B.1)	
amylase, alpha-	LD ₅₀	> 2000		OECD 401 (EU B.1) OECD 420 (EU B.1 bis)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Sodium citrate		No data available			
sodium carbonate	LD ₅₀	> 2000	Rabbit	Method not given	
sodium percarbonate	LD ₅₀	> 2000	Rabbit	OECD 402 (EU B.3)	
alkyl alcohol alkoxylate		No data available			

SUN PLATINUM-ECO DISHWASHER TABLETS

disodium trisilicate	LD ₅₀	> 5000	Rat	Method not given	
subtilisin		No data available			
amylase, alpha-		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Sodium citrate		No data available			
sodium carbonate	LC ₅₀	2.3 (dust)	Rat	OECD 403 (EU B.2)	2
sodium percarbonate		No data available			
alkyl alcohol alkoxylate		No data available			
disodium trisilicate	LC ₅₀	> 2.06	Rat	Method not given	
subtilisin		-		Weight of evidence	
amylase, alpha-		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Sodium citrate	No data available			
sodium carbonate	Not irritant	Rabbit	Method not given	
sodium percarbonate	Not irritant	Rabbit	Method not given	
alkyl alcohol alkoxylate	No data available			
disodium trisilicate	Irritant		Method not given	
subtilisin	Mild irritant	Rabbit	OECD 404 (EU B.4)	
amylase, alpha-	Not irritant		OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Sodium citrate	No data available			
sodium carbonate	Irritant	Rabbit	Method not given	
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
alkyl alcohol alkoxylate	No data available			
disodium trisilicate	Severe damage		Method not given	
subtilisin	Irritant	Rabbit	OECD 405 (EU B.5)	
amylase, alpha-	Not corrosive or irritant		OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Sodium citrate	No data available			
sodium carbonate	No data available			
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	
alkyl alcohol alkoxylate	No data available			
disodium trisilicate	Irritating to respiratory tract		Method not given	
subtilisin	No data available			
amylase, alpha-	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
Sodium citrate	No data available			
sodium carbonate	Not sensitising		Method not given	
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
alkyl alcohol alkoxylate	No data available			
disodium trisilicate	Not sensitising		Method not given	
subtilisin	No data available			
amylase, alpha-	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Sodium citrate	No data available			
sodium carbonate	No data available			

sodium percarbonate	No data available			
alkyl alcohol alkoxylate	No data available			
disodium trisilicate	No data available			
subtilisin	Sensitising		Weight of evidence	
amylase, alpha-	Sensitising		Weight of evidence	

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**Mutagenicity**

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
Sodium citrate	No data available		No data available	
sodium carbonate	No data available		No data available	
sodium percarbonate	No data available		No data available	
alkyl alcohol alkoxylate	No data available		No data available	
disodium trisilicate	No evidence for mutagenicity, negative test results		No data available	
subtilisin	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Chinese Hamster Ovary)	No data available	
amylase, alpha-	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476 (Chinese Hamster Ovary)	No data available	

Carcinogenicity

Ingredient(s)	Effect
Sodium citrate	No data available
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium percarbonate	No data available
alkyl alcohol alkoxylate	No data available
disodium trisilicate	No evidence for carcinogenicity, negative test results
subtilisin	No data available
amylase, alpha-	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
Sodium citrate			No data available				
sodium carbonate			No data available				
sodium percarbonate			No data available				
alkyl alcohol alkoxylate			No data available				
disodium trisilicate			No data available				No evidence for reproductive toxicity
subtilisin			No data available				
amylase, alpha-			No data available				

Repeated dose toxicity**Sub-acute or sub-chronic oral toxicity**

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Sodium citrate		No data available				
sodium carbonate		No data available				
sodium percarbonate		No data available				
alkyl alcohol alkoxylate		No data available				
disodium trisilicate	NOAEL	> 159	Rat	Method not given		
subtilisin		No data available				
amylase, alpha-		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
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SUN PLATINUM-ECO DISHWASHER TABLETS

Sodium citrate		No data available				
sodium carbonate		No data available				
sodium percarbonate		No data available				
alkyl alcohol alkoxylate		No data available				
disodium trisilicate		No data available				
subtilisin		No data available				
amylase, alpha-		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Sodium citrate		No data available				
sodium carbonate		No data available				
sodium percarbonate		No data available				
alkyl alcohol alkoxylate		No data available				
disodium trisilicate		No data available				
subtilisin		No data available				
amylase, alpha-		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
Sodium citrate			No data available					
sodium carbonate			No data available					
sodium percarbonate			No data available					
alkyl alcohol alkoxylate			No data available					
disodium trisilicate			No data available					
subtilisin			No data available					
amylase, alpha-			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
Sodium citrate	No data available
sodium carbonate	No data available
sodium percarbonate	No data available
alkyl alcohol alkoxylate	No data available
disodium trisilicate	No data available
subtilisin	No data available
amylase, alpha-	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Sodium citrate	No data available
sodium carbonate	No data available
sodium percarbonate	No data available
alkyl alcohol alkoxylate	No data available
disodium trisilicate	No data available
subtilisin	No data available
amylase, alpha-	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)
Sodium citrate		No data available			
sodium carbonate	LC ₅₀	300	<i>Lepomis macrochirus</i>	Method not given	96
sodium percarbonate	LC ₅₀	70.7	<i>Pimephales promelas</i>	Method not given	96
alkyl alcohol alkoxylate		No data available			
disodium trisilicate	LC ₅₀	260 - 310	<i>Oncorhynchus mykiss</i>	Method not given	96
subtilisin	LC ₅₀	8.2	<i>Fish</i>	OECD 203	96
amylase, alpha-	LC ₅₀	58.3 - 326.7	<i>Fish</i>	OECD 203	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Sodium citrate		No data available			
sodium carbonate	EC ₅₀	265	<i>Daphnia magna Straus</i>	Method not given	96
sodium percarbonate	EC ₅₀	4.9	<i>Daphnia pulex</i>	Method not given	48
alkyl alcohol alkoxylate		No data available			
disodium trisilicate	EC ₅₀	1700	<i>Daphnia magna Straus</i>	Method not given	48
subtilisin	EC ₅₀	0.586	<i>Daphnia</i>	OECD 202	48
amylase, alpha-	EC ₅₀	31.7 - 457	<i>Daphnia</i>	OECD 202	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Sodium citrate		No data available			
sodium carbonate		No data available			-
sodium percarbonate		No data available			-
alkyl alcohol alkoxylate		No data available			
disodium trisilicate	EC ₅₀	207	<i>Desmodesmus subspicatus</i>	Method not given	72
subtilisin	E _r C ₅₀	0.830	<i>Not specified</i>	OECD 201	72
amylase, alpha-	E _r C ₅₀	>= 5.2	<i>Not specified</i>	OECD 201	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
Sodium citrate		No data available			
sodium carbonate		No data available			-
sodium percarbonate		No data available			-
alkyl alcohol alkoxylate		No data available			
disodium trisilicate		No data available			-
subtilisin		No data available			-
amylase, alpha-		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
Sodium citrate		No data available			

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sodium carbonate		No data available			
sodium percarbonate	EC ₅₀	466	Activated sludge	OECD 209	0.5 hour(s)
alkyl alcohol alkoxylate		No data available			
disodium trisilicate		No data available			
subtilisin		No data available			
amylase, alpha-		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Sodium citrate		No data available				
sodium carbonate		No data available				
sodium percarbonate	NOEC	7.4	<i>Pimephales promelas</i>	Method not given	96 hour(s)	
alkyl alcohol alkoxylate		No data available				
disodium trisilicate	NOEC	348	<i>Brachydanio rerio</i>	Method not given	96 hour(s)	
subtilisin		No data available				
amylase, alpha-		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Sodium citrate		No data available				
sodium carbonate		No data available				
sodium percarbonate	NOEC	2	<i>Daphnia pulex</i>	Method not given	48 hour(s)	
alkyl alcohol alkoxylate		No data available				
disodium trisilicate		No data available				
subtilisin		No data available				
amylase, alpha-		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
Sodium citrate		No data available				
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
alkyl alcohol alkoxylate		No data available				
disodium trisilicate		No data available			-	
subtilisin		No data available			-	
amylase, alpha-		No data available			-	

Terrestrial toxicity

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

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
disodium trisilicate		No data available			-	
subtilisin		No data available			-	

SUN PLATINUM-ECO DISHWASHER TABLETS

amylase, alpha-		No data available			-	
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Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
disodium trisilicate		No data available			-	
subtilisin		No data available			-	
amylase, alpha-		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
disodium trisilicate		No data available			-	
subtilisin		No data available			-	
amylase, alpha-		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
disodium trisilicate		No data available			-	
subtilisin		No data available			-	
amylase, alpha-		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
disodium trisilicate		No data available			-	
subtilisin		No data available			-	
amylase, alpha-		No data available			-	

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
sodium percarbonate	NA	Method not given		

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
sodium carbonate	No data available		Rapidly hydrolysible	
sodium percarbonate	< 1 day(s)	Method not given	Hydrolysible	

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
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SUN PLATINUM-ECO DISHWASHER TABLETS

Sodium citrate					No data available
sodium carbonate					Not applicable (inorganic substance)
sodium percarbonate					Not applicable (inorganic substance)
alkyl alcohol alkoxylate					No data available
disodium trisilicate					Not applicable (inorganic substance)
subtilisin				OECD 301B	Readily biodegradable
amylase, alpha-				OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
Sodium citrate	No data available			
sodium carbonate	No data available		No bioaccumulation expected	
sodium percarbonate	No data available			
alkyl alcohol alkoxylate	No data available			
disodium trisilicate	No data available		Low potential for bioaccumulation	
subtilisin	< 0			
amylase, alpha-	< 0	Method not given	Not relevant, does not bioaccumulate	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Sodium citrate	No data available				
sodium carbonate	No data available			No bioaccumulation expected	
sodium percarbonate	No data available				
alkyl alcohol alkoxylate	No data available				
disodium trisilicate	No data available				
subtilisin	-			Not relevant, does not bioaccumulate	
amylase, alpha-	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
Sodium citrate	No data available				
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
sodium percarbonate	No data available				High potential for mobility in soil
alkyl alcohol alkoxylate	No data available				
disodium trisilicate	No data available				
subtilisin	No data available				
amylase, alpha-	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.

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

SUN PLATINUM-ECO DISHWASHER TABLETS

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 73/78 and the IBC Code: The product is not transported in bulk tankers.

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	A poison schedule number has not been allocated to this product 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: MS31000630

Version: 01.0

Revision: 2016-05-13

Full text of the H phrases mentioned in section 3:

- H272 - May intensify fire; oxidiser.
- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.

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.

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
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LD50 - Lethal Dose, 50% / Median Lethal dose
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number

End of Safety Data Sheet