# SAFETY DATA SHEET

### 1. Identification

<u>Names</u>	
Product name	: Dettol Washing Machine Cleaner Citrus Burst
SDS no.	: D8278274 v16.0
Formulation #	: 8266468 v2.0
Supplier	: AUSTRALIA RECKITT BENCKISER (AUSTRALIA) PTY LIMITED ABN: 17 003 274 655 680 George St , Sydney, NSW 2000 Tel: +61 (02) 9857 2000
	NEW ZEALAND Reckitt Benckiser (New Zealand) Limited 2 Fred Thomas Drive, Takapuna, Auckland, New Zealand 0622 Tel: +64 9 484 1400
Poison Information contact:	Australia - 13 11 26 New Zealand - 0800 764 766 or 0800 POISON
<u>Uses</u>	
Product use	: Washing machine cleaner. Consumer uses.

### 2. Hazard identification

Classification of the substance or mixture	-	CORROSIVE TO METALS - Category 1 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
<u>GHS label elements</u> Hazard pictograms	:	
Signal word	:	DANGER
Hazard statements	:	May be corrosive to metals. Causes skin irritation. Causes serious eye damage.
Precautionary statements		
General	:	Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	:	Wash hands thoroughly after handling. Keep only in original packaging.
Response	-	IF IN EYES: Rinse continuously with water for several minutes and remove contact lenses if present and easy to do; continue rinsing. Immediately call a POISON CENTER/doctor.
Storage	:	Not applicable
Disposal	:	Not applicable.

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## 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
L-Lactic acid (2-hydroxy propionic acid)	≤10	79-33-4
Alcohols, C12-18, ethoxylated propoxylated	≤3	69227-22-1
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	≤3	77-92-9

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

### 4. First-aid measures

#### **Description of necessary first aid measures**

Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptom	s/effects, acute and delayed
Potential acute health e	ffects
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sy</u>	r <u>mptoms</u>

## 4. First-aid measures

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

#### 5. Fire-fighting measures Extinguishing media Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media Unsuitable extinguishing : None known. media Specific hazards arising : No specific fire or explosion hazard. from the chemical **Hazardous thermal** : Decomposition products may include the following materials: carbon dioxide decomposition products carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters there is a fire. No action shall be taken involving any personal risk or without suitable training. **Special protective** Fire-fighters should wear appropriate protective equipment and self-contained ŝ, breathing apparatus (SCBA) with a full face-piece operated in positive pressure equipment for fire-fighters mode. Hazchem code : 2X

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	<ul> <li>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist.</li> </ul>
	Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### 6. Accidental release measures

For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for con	Itai	nment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

### 7. Handling and storage

Precautions for safe handling		
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## 8. Exposure controls/personal protection

#### **Control parameters**

#### <u>Australia</u>

Occupational exposure limits

Ingredient name	Exposure limits
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	<b>DFG MAC-values list (Germany, 10/2021).</b> PEAK: 4 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 2 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction

<u>New Zealand</u>

#### **Occupational exposure limits**

Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>res</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection		
Hand protection	:	Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<b>Appearance</b>		
Physical state	: Liquid. [Transparent]	
Colour	: Yellow	
Odour	: Fragrant.	
Odour threshold	: Not available.	
рН	: 2.3 to 2.9 [Conc. (% w/w): 100%]	
Melting point/freezing point	: Not available.	
Boiling point, initial boiling point, and boiling range	: Not available.	
Flash point	: Closed cup: >93.3°C (>199.9°F)	
Evaporation rate	: Not available.	
Flammability	: Not available.	
Lower and upper explosion limit/flammability limit	: Not available.	
Vapour pressure	: Not available.	
Relative vapour density	: Not available.	
Relative density	: 1 to 1.1	
Density	: 1 to 1.1 g/cm <sup>3</sup> [20°C (68°F)]	
Solubility(ies)	:	

Media		Result	
cold water		Easily soluble	
hot water		Easily soluble	
Partition coefficient: n- octanol/water	: Not applicable.		
Auto-ignition temperature	: Not available.		
Decomposition temperature	: Not	Not available.	
Viscosity	: Dyna	amic: 30 to 290 mPa⋅s (30 to 290 cP)	
Particle characteristics			
Median particle size	: Not	applicable.	

## 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
Chemical stability	: The product is stable.	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	: No specific data.	
Incompatible materials	: Reactive or incompatible with the following materials: metals	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

## 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	LD50 Oral	Rat	11700 mg/kg	-

#### Conclusion/Summary

Based on available data, the classification criteria are not met.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
L-Lactic acid (2-hydroxy propionic acid)	Skin - Irritant	Rabbit	-	24 hours	-
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	Eyes - Severe irritant	Rabbit	-	24 hours 750 ug	-

#### **Conclusion/Summary**

Skin

Eyes

Dessivets

Calculation method Causes skin irritation.

Calculation method Causes serious eye damage.

Respiratory

Based on available data, the classification criteria are not met.

#### Sensitisation

Product/ingredient name	Route of exposure	Species	Result
L-Lactic acid (2-hydroxy propionic acid)	skin	Guinea pig	Not sensitizing
Conclusion/Summary	·		· · · · · ·
Skin	Based on ava	ilable data, the classifi	cation criteria are not met.
Respiratory	Based on ava	ilable data, the classifi	cation criteria are not met.
Germ Cell Mutagenicity			
Not available.			
Conclusion/Summary	Based on ava	ilable data, the classifi	cation criteria are not met.
Carcinogenicity			
Not available.			
Conclusion/Summary	Based on ava	ilable data, the classifi	cation criteria are not met.
Reproductive toxicity		,	
Not available.			
Conclusion/Summary	Based on ava	ailable data, the classifi	cation criteria are not met.
Teratogenicity			

Not available.

**Conclusion/Summary** Based on available data, the classification criteria are not met. **Specific target organ toxicity (single exposure)** 

Name	Category	Route of exposure	Target organs
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	Category 3	-	Respiratory tract irritation
Specific target organ toxicity (repeated exposure	) )		
Name	Category	Route of	Target organs
		exposure	

Date of issue

: 14/12/2022

## 11. Toxicological information

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	4	No specific data.
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains
Delayed and immediate effect	ts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Not available.

<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Germ Cell Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Potential chronic health effects

#### Acute toxicity estimates

Route	ATE value
Oral	9861.25 mg/kg
Dermal	23048.4 mg/kg

## 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
L-Lactic acid (2-hydroxy propionic acid)	Acute EC50 240000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	Acute LC50 130 ppm Fresh water Acute LC50 160000 µg/l Marine water	Fish - Oncorhynchus mykiss Crustaceans - Carcinus maenas - Adult	96 hours 48 hours
Conclusion/Summary	Based on available data, the classified	cation criteria are not met.	

Persistence and degradability

**Conclusion/Summary** Based on available data, the classification criteria are not met.

#### **Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	-1.8	-	low

#### **Mobility in soil**

Soil/water partition	: Not available.
coefficient (Koc)	

**Other adverse effects** 

: No known significant effects or critical hazards.

### 13. Disposal considerations

**Disposal methods** 

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### 14. Transport information

	ADG	ADR/RID	IMDG	ΙΑΤΑ
UN number	UN3265	UN3265	UN3265	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O.S. (N- (3-aminopropyl)-N- dodecylpropane- 1,3-diamine, Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O.S. (LAURYLAMINE DIPROPYLENEDIAMINE, BENZALKONIUM CHLORIDE)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O.S. (N- (3-aminopropyl)-N- dodecylpropane- 1,3-diamine, Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides)	Corrosive liquid, acidic, organic, n.o.s. (N-(3-aminopropyl)-N- dodecylpropane- 1,3-diamine, Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides)
Date of issue : 14/12/2022 Page: 9/11				

14. Transport information				
Packing group		111		
Environmental hazards	No.	No.	No.	No.
Additional information	tion	·	·	
ADG ADR/RID	<u>;</u> ; <u>†</u> ;	azchem code 2X pecial provisions 223, 2 azard identification nur imited quantity 5 L pecial provisions 274 unnel code (E)		
IMDG		mergency schedules F pecial provisions 223, 2		
ΙΑΤΑ	C F		Packaging instructions: ackaging instructions: Y	it: 5 L. Packaging instructions: 85 856. Limited Quantities - 841.
Special precautions	L		e that persons transport	port in closed containers that are ting the product know what to do
Transport in bulk a to IMO instruments		lot available.		

# 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons		
Not scheduled		
Australian Inventory of Industrial Chemicals (AIIC)	All components are listed or exempted.	
New Zealand Inventory of Chemicals (NZIoC)	All components are listed or exempted.	
HSNO Group Standard	Cleaning Products (Subsidiary Hazard)	
HSNO Approval Number	HSR002530	
Approved Handler Requirement	Not applicable.	
Tracking Requirement	Not applicable.	

# 16. Other information

Key to abbreviations	<ul> <li>ADG = Australian Dangerous Goods         ADR = The European Agreement concerning the International Carriage of             Dangerous Goods by Road             RID = The Regulations concerning the International Carriage of Dangerous Goods             by Rail             IATA = International Air Transport Association             IMDG = International Maritime Dangerous Goods             GHS = Globally Harmonized System of Classification and Labelling of Chemicals             IBC = Intermediate Bulk Container             SUSMP = Standard Uniform Schedule of Medicine and Poisons             UN = United Nations         </li> </ul>

### 16. Other information

	SWA = Safe Work Australia HSNO = Hazardous Substances and New Organisms Act 1996	
Date of issue / Date of revision	14/12/2022	
Version	1.0L (Version for updated GHS Revision 7 PSDS Template)	

#### Procedure used to derive the classification

Classification	Justification
CORROSIVE TO METALS - Category 1	Expert judgment
SKIN CORROSION/IRRITATION - Category 2	Expert judgment
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Expert judgment
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method

References

: Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Please read all labels carefully before using product.