

# SAFETY DATA SHEET



## DISHWASH DELUXE

APPLIED PRODUCTS AUSTRALIA PTY LTD

Catalogue number: AP219

Version No: 2.3

Issue date: 02/09/2021

Safety Data Sheet according to WHS and ADG requirements

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

Product name	DISHWASH DELUXE
Product code	AP219
Pack size	4.5 kg
Proper shipping name	DISODIUM TRIOXOSILICATE

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

Relevant identified uses	Automatic dishwashing powder
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#### Details of the manufacturer/importer

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Website	www.actichem.com.au
Email	info@actichem.com.au

#### Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

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

Poisons Schedule	5
GHS Classification	Serious Eye Damage Category 1, Skin Corrosion/Irritation Category 1B, STOT - SE (Resp. Irr.) Category 3, <i>Classification drawn from HCIS and ECHA C&amp;L Inventory.</i>

#### Label elements

GHS label elements	
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SIGNAL WORD	<b>DANGER</b>
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#### Hazard statement(s)

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

#### Precautionary statement(s) Prevention

P260	Do not breathe dust.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / eye protection / face protection.

**Precautionary statement(s) Response**

P301+P310+P330+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
P303+P310+P361+P353	IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor. Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P310+P351+P338	IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P310+P340	IF INHALED: Immediately call a POISON CENTER or doctor. Remove person to fresh air and keep at rest in a position comfortable for breathing.
P363	Wash contaminated clothing before reuse.

**Precautionary statement(s) Storage**

P403+P405+P233	Store locked up, in a well-ventilated place. Keep container tightly closed.
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**Precautionary statement(s) Disposal**

P501	Dispose of contents / container in accordance with local government regulations
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**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

See section below for composition of Mixtures

**Mixtures**

CAS No	%[weight]	Name
10213-79-3	10-<30	<u>disodium trioxosilicate</u>
7758-29-4	30-60	<u>sodium tripolyphosphate</u>
64-02-8	<10	<u>EDTA tetrasodium salt</u>
15630-89-4	10-<30	<u>sodium percarbonate</u>
497-19-8	10-<30	<u>sodium carbonate</u>

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4 FIRST AID MEASURES****Description of first aid measures**

<b>Eye Contact</b>	<p>If this product comes in contact with the eyes: Seek medical advice / attention immediately. Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If instructed to do so, transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</p>
<b>Skin Contact</b>	<p>If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Seek medical advice and transport to hospital or doctor if instructed to do so. If irritation persists, seek medical advice / attention.</p>
<b>Inhalation</b>	<p>If inhaled, remove person from contaminated area to fresh air. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Get medical advice / attention without delay.</p>
<b>Ingestion</b>	<p>For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. <b>If swallowed do NOT induce vomiting.</b> If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Never give liquid to a person showing signs of being sleepy or with reduced awareness, i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay. Observe the patient carefully.</p>

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES****Extinguishing media**

<b>Extinguishing media</b>	<p>Water spray or fog. Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide.</p>
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**Special hazards arising from the substrate or mixture**

<b>Fire incompatibilities</b>	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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#### Advice for firefighters

<b>Fire Fighting</b>	<p>The product is not flammable or combustible. HOWEVER if fire should occur for other reasons: Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use firefighting procedures suitable for surrounding area. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.</p>
<b>Fire/Explosion Hazard</b>	<p>Product may release oxygen when heated which may stimulate the fire. Combustion may cause the release of carbon monoxide (CO) and carbon dioxide (CO2).</p>
<b>HAZCHEM</b>	2X

## SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

<b>Minor Spills</b>	<p>Environmental hazard - contain spillage. Check regularly for spills and leaks. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labelled container for waste disposal.</p>
<b>Major Spills</b>	<p>Pick up using a plastic shovel and place into labelled drums and dispose of according to local government regulations. Prevent by any means available to prevent any spillage entering a watercourse. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle</p>
<b>PPE</b>	Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

<b>Safe handling</b>	<p>Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. When handling, <b>DO NOT eat, drink or smoke</b>. Keep containers securely sealed when not in use. Always wash hands with soap and water after handling.</p>
<b>Other information</b>	<p>Store in original containers. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. <b>DO NOT store near acids, or oxidising agents</b></p>

#### Conditions for safe storage, including any incompatibilities

<b>Suitable container</b>	<p>Plastic pail. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.</p>
<b>Storage incompatibility</b>	Avoid storing with strong acids.

#### PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

##### OCCUPATIONAL EXPOSURE LIMITS (OEL)

##### INGREDIENT DATA


Not Available

##### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium carbonate	Soda ash	7.6 mg/m3	83 mg/m3	500 mg/m3
sodium metasilicate, pentahydrate	Sodium metasilicate pentahydrate	6.6 mg/m3	73 mg/m3	440 mg/m3
sodium tripolyphosphate	Sodium tripolyphosphate	0.22 mg/m3	2.5 mg/m3	620 mg/m3
EDTA tetrasodium salt	Ethylenediaminetetraacetic acid, tetrasodium salt; (Tetrasodium EDTA)	82 mg/m3	830 mg/m3	5000 mg/m3

Ingredient	Original IDLH	Revised IDLH
sodium carbonate	Not Available	Not Available
sodium metasilicate, pentahydrate	Not Available	Not Available
sodium tripolyphosphate	Not Available	Not Available
EDTA tetrasodium salt	Not Available	Not Available
sodium percarbonate	Not Available	Not Available

#### Exposure controls

<b>Appropriate engineering controls</b>	Maintain adequate ventilation at all times. If ventilation is poor, the use of a local extraction ventilation system is recommended.
<b>Personal protection</b>	
<b>Eye and face protection</b>	Safety glasses with unperforated side shields, or Chemical goggles, whenever there is a danger of the material coming in contact with the eyes. Goggles must be properly fitted. Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.
<b>Skin protection</b>	See Hand protection below
<b>Hands/feet protection</b>	Elbow length gloves. Natural rubber or nitrile is recommended for this application.
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	Eyewash unit. If atmosphere is dusty, the use of respiratory protection is recommended.
<b>Thermal hazards</b>	Not Available

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<b>Appearance</b>	White powder with blue flecks		
<b>Physical state</b>	Divided Solid Powder	<b>Relative density (Water = 1)</b>	Not Applicable
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature(°C)</b>	Not Applicable
<b>pH (as supplied)</b>	Not Applicable	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Applicable	<b>Viscosity (cSt)</b>	Not Applicable
<b>Initial boiling point and boiling range (°C)</b>	Not Applicable	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not Applicable	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Applicable	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Applicable	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Applicable
<b>Lower Explosive Limit (%)</b>	Not Applicable	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Applicable	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Partly miscible	<b>pH as a solution (1%)</b>	13
<b>Vapour density (Air = 1)</b>	Not Applicable	<b>VOC g/L</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

<b>Inhaled</b>	Inhaling the product may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane.
<b>Ingestion</b>	Ingestion may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow. Accidental ingestion of the material may be damaging to the health of the individual.
<b>Skin Contact</b>	The material can produce severe chemical burns following direct contact with the skin. Skin contact is not thought to have harmful health effects (as classified under EC Directives Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
<b>Eye</b>	If applied to the eyes, this material causes severe eye damage. Direct eye contact can cause pain and burns. There may be swelling, epithelium destruction, clouding of the cornea and inflammation of the iris. Mild cases often resolve; severe cases can be prolonged with complications such as persistent swelling, scarring, permanent cloudiness, bulging of the eye, cataracts, eyelids glued to the eyeball and blindness.
<b>Chronic</b>	Repeated or prolonged skin contact may cause drying and cracking of the skin and possibly dermatitis. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

### Toxicological effects of ingredients

<b>sodium metasilicate pentahydrate</b>	Acute toxicity	LD50 Oral - rat - 847 mg/kg
	Skin corrosion/irritation	Corrosive. Causes skin burns
	Eye damage/irritation	Corrosive. Causes eye burns
	Respiratory/skin sensitization	No Data Available
	Germ cell mutagenicity	Sodium silicate was not mutagenic to the bacterium E. Coli when tested in a mutagenicity bioassay
	Carcinogenicity	There are no known reports of carcinogenicity of sodium silicates.
	Reproductive toxicity	Decreased numbers of births and survival to weaning was reported for rats fed sodium silicate in their drinking water at 600 and 1200 ppm.
	STOT (single exposure)	Dust corrosive to respiratory tract
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
<b>sodium tripolyphosphate</b>	Acute toxicity	Oral LD50 (rat) 2000 mg/kg Inhalation LC50 (rat) 390 mg/kg Dermal LD50 (rat) 4640 mg/kg
	Skin corrosion/irritation	Not a skin irritant
	Eye damage/irritation	no adverse effect observed (not irritating)
	Respiratory/skin sensitization	no adverse effect observed (not sensitising)
	Germ cell mutagenicity	No adverse effect observed (negative)
	Carcinogenicity	This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
<b>EDTA tetrasodium salt</b>	Acute toxicity	Oral LD50 (rat): >1780 - <2000 mg/kg
	Skin corrosion/irritation	Contact with skin may result in irritation
	Eye damage/irritation	Irritant (rabbit).
	Respiratory/skin sensitization	Not sensitizing
	Germ cell mutagenicity	No adverse effect observed
	Carcinogenicity	Not listed as carcinogenic according to the International Agency for Research on Cancer (IARC).
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
<b>sodium percarbonate</b>	Acute toxicity	Oral LD50 (rat) 1034 – 2000 mg/kg Dermal LD50 (rabbit) >2000 mg/kg
	Skin corrosion/irritation	Mild irritant (Rabbit).
	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	Not a skin sensitizer
	Germ cell mutagenicity	No adverse effect observed in tests conducted
	Carcinogenicity	Not a carcinogen
	Reproductive toxicity	Unlikely to be toxic to reproduction
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
<b>sodium carbonate</b>	Acute toxicity	Oral LD50 (rat) 2800 mg/kg Dermal LD50 (rat) 2000 mg/kg
	Skin corrosion/irritation	Prolonged or repeated contact may cause mild irritation
	Eye damage/irritation	Irritant. May cause pain, redness, discomfort
	Respiratory/skin sensitization	Not sensitizing
	Germ cell mutagenicity	Not genotoxic
	Carcinogenicity	No Data Available
	Reproductive toxicity	Not toxic to reproduction
	STOT (single exposure)	No data available
	STOT (repeated exposure)	No data available
	Aspiration toxicity	No data available

## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity

	Endpoint	Duration (Hr.)	Species	Value
sodium carbonate	LC50	96	Fish	300-mg/L
	EC50	48	Crustacea	-156.6-298.9mg/L
	EC50	96	Algae or other aquatic plants	242-mg/L
	NOEC	48	Crustacea	<424-mg/L
sodium metasilicate, pentahydrate	LC50	96	Fish	210mg/L
	EC50	48	Crustacea	-22.94-49.01mg/L
	EC50	72	Algae or other aquatic plants	207mg/L
	EC0	72	Algae or other aquatic plants	35mg/L
	NOEL	120	Algae or other aquatic plants	2.172668-mg/L
sodium percarbonate	EC50	48	Crustacea	=4.9mg/L
	NOEC	48	Crustacea	=2mg/L
EDTA tetrasodium salt	LC50	96	Fish	41mg/L
	EC50	48	Crustacea	140mg/L
	EC50	72	Algae or other aquatic plants	=1.01mg/L
	EC10	72	Algae or other aquatic plants	=0.48mg/L
	NOEC	33	Algae or other aquatic plants	0.0003802-mg/L
sodium tripolyphosphate	EC50	48	Crustacea	>70.7-<101.3mg/L
	EC50	96	Algae or other aquatic plants	69.2mg/L

Harmful to aquatic organisms.  
Prevent, by any means available, spillage from entering drains or water courses.  
DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium carbonate	LOW	LOW

### Bio accumulative potential

Ingredient	Bio accumulation
sodium carbonate	LOW (LogKOW = -0.4605)

### Mobility in soil

Ingredient	Mobility
sodium carbonate	HIGH (KOC = 1)

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations.
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## SECTION 14 TRANSPORT INFORMATION

### Labels Required

Marine Pollutant	NO
HAZCHEM	2X

Land transport (ADG): Not applicable – NOT REGULATED FOR THE TRANSPORT OF DANGEROUS GOODS WHEN IN PACK SIZES OF 5KG OR LESS

## SECTION 15 REGULATORY INFORMATION

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

#### SODIUM CARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6  
Australian Inventory of Industrial Chemicals (AIIC)

#### SODIUM METASILICATE, PENTAHYDRATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australian Inventory of Industrial Chemicals (AIIC)

#### SODIUM PERCARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6  
Australian Inventory of Industrial Chemicals (AIIC)

**EDTA TETRASODIUM SALT IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4  
Australian Inventory of Industrial Chemicals (AIIC)

**SODIUM TRIPOLYPHOSPHATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australian Inventory of Industrial Chemicals (AIIC)

**SECTION 16 OTHER INFORMATION****Revision Schedule**

<b>Revision Date</b>	02/09/2021
<b>Initial Date</b>	08/12/2016

**SDS Version Summary**

Version	Issue Date	Sections Updated
2.1	07/01/2021	Sections 1, 2, 3, 5, 8, 11, 12, 15, 16 have been updated or corrected
2.2	11/06/2021	Sections 1, 3 and 14
2.3	02/09/2021	Change of product name.

**Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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**Definitions and abbreviations**

PC-TWA;	Permissible Concentration-Time Weighted Average
PC-STEL;	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Government Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediate Danger to Life or Health Concentrations
OSF:	Odour Safety Factor
NOAEL:	No Observed Effects Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEI:	Biological Exposure Index

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**End of SDS**