


Date of Issue: 22nd May 2016

Tornado

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name	Tornado
Code	50213
Product Use	Machine dishwashing & crate washing liquid
Company Name	Dominant (Australia) Pty Ltd
Address	12 Coglin Street, Brompton SA 5007, Australia
Telephone	1300 789 852 or +61 (8) 8245 6900
Facsimile	+ 61 (8) 8340 1626
Emergency Phone	13 11 26

2. HAZARDS IDENTIFICATION

GHS Classification	Skin Corrosion 1A Eye Damage 1 Metal Corrosion 1
Signal Word	DANGER
Hazard Statements	Causes severe skin burns and eye damage May be corrosive to metals Contact with acids liberates toxic gas
Precautionary Statements	Avoid breathing mists. Ensure adequate ventilation when using. Keep out of reach of children. Store locked up. Wash skin thoroughly after handling. Wear protective gloves, protective clothing and eye /face protection. Do not store or mix with acids. IF SWALLOWED: Rinse mouth, do NOT induce vomiting. Immediately call a POISON CENTRE or doctor. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor. Dispose of contents/container in accordance with state regulations
Pictograms	

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Ingredients	Name	CAS	Proportion
	Potassium hydroxide	1310-58-3	10 - 30%
	Sodium hypochlorite	7681-52-9	<10%
	Other ingredients	non hazardous	balance

4. FIRST AID MEASURES

Ingestion	If swallowed do NOT induce vomiting. Immediately wash out mouth with water. Immediately call a POISON CENTRE or doctor..
Eye	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.
Skin	If skin contact occurs, Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Inhaled	Remove victim to fresh air and keep at rest in a position comfortable for breathing. . Immediately call a POISON CENTRE or doctor.
First Aid Facilities	An eye wash and general washing facility should be available adjacent to the work area.
Advice to Doctor	Treat symptomatically. For advice contact a Poisons Information Centre. (Phone Australia 13 11 26; New Zealand 0800 764 766)

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use appropriate extinguishing media to suit surrounding area
Hazards from Combustion	Material does not burn.
Precautions for Fire Fighters	Wear chemical splash suit and SCBA. Stay up wind. Corrosive liquid. Contact with metals may evolve flammable hydrogen gas.
Hazchem	2R

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Keep unauthorised people away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Clean Up	Spills will be slippery so treat promptly. For minor spills mop up and rinse with water. For larger spills absorb material on mineral absorbent material or absorbent pads. Collect and put into plastic bags or containers and dispose of through waste disposal contractor. Rinse area with water.

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Handling	Wear appropriate protective clothing to prevent skin and eye contact. Use in well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Storage	Corrosive product. Store in a cool, dry, well ventilated place out of direct sunlight. Keep only in original containers. Store in closed containers. Store away from incompatible materials such as acids, aluminium or zinc. Stored locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards	None listed for product. However exposure standards for potassium hydroxide and sodium hypochlorite are: Potassium hydroxide TWA 2mg/m ³ Peak limitation. Sodium hypochlorite TWA 1ppm, 3mg/m ³ peak limitation
Engineering Controls	Tornado is dispensed using an electronic feeder to prevent contact. Use in a well ventilated area to maintain levels below exposure standards.
Personal Protective Equipment	Wear chemical goggles or safety glasses, and impervious gloves when changing drums. If ventilation is inadequate wear an approved respirator complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid with mild chlorine odour
Solubility in Water	Soluble
pH	14
Flash Point	Not available
Melting Point	Not available
Boiling Point	100°C approx..
Specific Gravity	1.23

10. STABILITY AND REACTIVITY

Stability	Product loses strength (available chlorine) with time, especially in hot conditions
Hazardous Polymerisation	Will not occur
Conditions to Avoid	Avoid hot store areas. Store below 30°C
Incompatible Materials	Liberates chlorine gas if mixed with acids. Attacks aluminium, tin and zinc.

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Ingestion	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and bleeding. Can cause chemical burns to the mouth, oesophagus and gastrointestinal tract.
Eye	Corrosive to eyes. Will cause severe irritation and chemical burns. Contamination of eyes can result in permanent injury or blindness.
Skin	Corrosive to skin – may cause skin burns. Contact with skin will result in severe irritation.
Inhalation	Mist generated may cause severe irritation to the mucous membranes and upper respiratory tract.
Chronic Effects	Prolonged or repeated exposure to this product will result in skin irritation and possibly result in dermatitis.
Toxicological Data	None available for Tornado. However for potassium hydroxide... Oral LD 50: 365mg/kg (rat) Skin 50mg/24H: Severe (human) (Reference: Dangerous Properties of Industrial Materials 7th Edition)

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish Toxicity LC50/48hr : < 1mg/L chlorine Do not allow product to come in contact with storm / surface waters.
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13. DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority. Dispose of material through licensed waste contractor. Assure conformity with all applicable regulations.

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UN No.	1719
Proper Shipping Name	CAUSTIC ALKALI LIQUID N.O.S. (Contains Potassium hydroxide)
Hazchem Code	2R
Class	8 Corrosive
Packing Group	II

15. REGULATORY INFORMATION

Classification	Poisons Schedule: <i>Schedule 6 (S6)</i> according to the Poisons Standard March 2016 <i>Hazardous</i> according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) <i>Dangerous Good</i> according to Australian Dangerous Goods (ADG) code (7.4)
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16. OTHER INFORMATION

Contact Point	Dominant Australia. Phone 08 8245 6900 or 1300 789 852 24 hour medical emergency 13 11 26
Date of preparation	28 th June 2016