SAFETY DATA SHEET

Liquid Dynamite Plus

Preparation Date: 25-Aug-2015
Revision Number: 3.0
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name	Liquid Dynamite Plus
Item#:	AUS54027
Recommended use	Alkaline detergent
Uses advised against	Restricted to professional users
Supplier	DeLaval Pty. Ltd. ACN 004 210 459, 37 Bayside Avenue, Port Melbourne, VIC 3207, Australia. +61-3-8336 7977, Fax +61-3-8336 7900
Emergency Telephone Number	131 126 (Poison Control Centre)

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Skin corrosion/irritation - Category 1A
Serious eye damage/eye irritation - Category 1
Acute aquatic toxicity - Category 1
Chronic aquatic toxicity - Category 1

2.2. Label Elements

Hazard Pictogram(s)



Name of hazard pictogram(s) Corrosion, Environment

Signal word DANGER

Hazard Statements
H314 - Causes severe skin burns and eye damage
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements
P102 - Keep out of reach of children
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P310 - Immediately call a POISON CENTER/doctor.
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/container in accordance with local regulations

Note
Signal words and pictograms are not required on labels for AgVet chemicals.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium hydroxide	1310-73-2	10 - 30%
Water	7732-18-5	> 60%
Sodium Hypochlorite	10022-70-5	1 - 10%
1,2,4-Butanetricarboxylic acid, 2-phosphono-	37971-36-1	1 - 10%
Acrylic resin	9003-01-4	0 - 1%

4. FIRST AID MEASURES

General Advice Show this safety data sheet to the doctor in attendance. Ensure that eyewash

	stations and safety showers are close to the workstation location.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
Skin contact	Wash off immediately with plenty of water. Get medical attention.
Inhalation	Move to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Effects of overexposure	No information available
Indication of any immediate medical attention and special treatment needed	No information available

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes.
Protective Equipment and Precautions for Firefighters	Use personal protective equipment.
Hazchem Code	2R

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid contact with skin, eyes and clothing. For personal protection see section 8.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for cleaning up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Safe Handling Advice	Wear personal protective equipment. Avoid contact with skin, eyes and clothing.
Storage	Keep container tightly closed in a dry and well-ventilated place.
Incompatible products	No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits

Chemical name	ES-TWA	ES-STEL	ES-Peak
Sodium hydroxide			2 mg/m^3

Biological standards No biological limit allocated
Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Tightly fitting safety goggles

Skin Protection Long sleeved clothing, Chemical resistant apron, Boots

Hand Protection Neoprene gloves

Respiratory Protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

General Hygiene Considerations When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear
Physical state Liquid
Odor Slight chlorine
Odor Threshold No information available

pH > 12
Specific Gravity 1.22
Vapor Pressure No data available
Vapor Density No data available

Flash Point No data available
Autoignition Temperature No data available
Boiling Point/Range No data available
Melting Point/Range No data available
Freezing Point/Range No data available
Decomposition temperature No information available
Flammability (solid, gas) No information available
Explosion Limits No information available
Evaporation Rate No data available
Relative Density No data available
Solubility No information available
Partition Coefficient (n-octanol/water) No data available
Viscosity No information available

10. STABILITY AND REACTIVITY

Reactivity No information available

Chemical Stability Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal use

Conditions to Avoid Extremes of temperature and direct sunlight.

Incompatible Materials Acids, organic materials

Hazardous decomposition products Chlorine

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Inhalation No information available.
Skin contact No information available.
Ingestion No information available.

Component Analysis - LD50/LC50

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide 1310-73-2	325 mg/kg	1350 mg/kg	
Water 7732-18-5	> 90 mL/kg (Rat)		
Sodium Hypochlorite 10022-70-5	= 8910 mg/kg (Rat)		> 10500 mg/m^3 (Rat) 1 h
1,2,4-Butanetricarboxylic acid, 2-phosphono- 37971-36-1	> 4000 mg/kg (Rat)	> 4000 mg/kg (Rat)	> 1979 mg/m^3 (Rat) 4 h
Acrylic resin 9003-01-4	= 2500 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.1 mg/L (Rat) 4 h

Potential Health Effects

Skin Corrosion/Irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Mutagenic effects No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive Effects No information available.

STOT - single exposure No information available.

STOT - repeated exposure Not hazardous.

Aspiration Hazard No information available.

Information on likely routes of exposure No known significant effects or critical hazards

Early onset symptoms related to exposure (Immediate effects) None known

Delayed health effects from exposure none known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sodium hydroxide		LC 50 (96 h) 45.4 mg/l (Oncorhynchus mykiss)		EC50 (48h): 40.4 mg/l (Ceriodaphnia dubia)
1,2,4-Butanetricarboxylic acid, 2-phosphono-	140: 72 h Desmodesmus subspicatus mg/L EC50			
Acrylic resin		580: 96 h Lepomis macrochirus mg/L LC50		

Persistence and degradability No information available

Bioaccumulation/Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

Other adverse effects No information available

Biodegradation No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

Contaminated Packaging Clean container with water. Dispose of in accordance with local regulations.

Personal precautions Use personal protective equipment. Avoid contact with skin, eyes and clothing. For personal protection see section 8.

14. TRANSPORT INFORMATION

Road and Rail transport

UN-No	1760
Proper Shipping Name	Corrosive liquid, n.o.s (Sodium hydroxide)
Technical name	Sodium hydroxide
Hazard Class	8
Packing Group	II
Environmental hazard	Environmental hazard
Special Precautions	Not regulated
Hazchem Code	2R

IMDG/IMO

UN number or ID number	No information available
Proper shipping name	No information available (Sodium hydroxide)
Technical name	No information available
Transport hazard class(es)	No information available
Packing Group	No information available
IMDG Marine Pollutant	No information available

IATA/ICAO

UN number or ID number	No information available
Proper Shipping Name	No information available (Sodium hydroxide)
Technical name	No information available
Transport hazard class(es)	No information available
Packing group	No information available

EPG Code	8A1

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	No information available
Poison Schedule Number	Schedule 6
APVMA Approval Number	54027

16. OTHER INFORMATION

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End of SDS