

SAFETY DATA SHEET

Herd Navigator Detergent

Preparation Date: 13-Jan-2017

Next revision date: 13-Jan-2022

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name Herd Navigator Detergent
Item#: NZ0007
Recommended use Cleansing agents, alkaline
Uses advised against Restricted to professional users

Supplier DeLaval Manufacturing
PO Box 15-205
Kells Place
Hamilton
New Zealand

Telephone Number +64 7 847 9904
(8am - 4:30pm Mon-Fri)

Emergency Telephone Number 111 - Fire Brigade (for hazardous spills and fires)
+64 3 474 7000 - National Poisons Centre (for medical emergencies)

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture according to GHS

Acute toxicity - Oral - Category 4
Skin corrosion/irritation - Category 1
Serious eye damage/eye irritation - Category 1
Corrosive to Metals - Category 1

HSNO Classifications
6.1D Substances that are acutely toxic
8.2C Substances that are corrosive to dermal tissue
8.3A Substances that are corrosive to the eye
8.1A Substances that are corrosive to metals

2.2. Label Elements

Hazard Pictogram(s)



Signal word DANGER

Hazard Statements
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H290 - May be corrosive to metals

Precautionary statements
P102 - Keep out of reach of children
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P501 - Dispose of contents/container in accordance with local regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Potassium hydroxide	1310-58-3	10 - 30%
Sodium hydroxide	1310-73-2	10 - 30%
Tetrasodium EDTA	64-02-8	1 - 10%

Other ingredients, determined not to be hazardous subject to the provisions of the Hazardous Substances (identification) Regulations 2001, make up the product concentration to 100%

4. FIRST AID MEASURES

Workplace Facilities	Eyewash bottle with clean water
General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Eye contact	Immediate medical attention is required Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air If not breathing, give artificial respiration If breathing is difficult, give oxygen Call a physician or Poison Control Centre immediately
Ingestion	Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.
Notes to Physician	Treat symptomatically.
Protection of First-aiders Antidote	Use personal protective equipment. Avoid contact with skin, eyes and clothing. For more information, contact the National Poisons and Hazardous Chemicals Information Centre: University of Otago - Dunedin, NZ +64 3 479 7248 www.toxinz.com

5. FIRE-FIGHTING MEASURES

Hazchem Code	No information available
Flammable Properties	No information available.
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. alcohol-resistant foam.

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Unsuitable Extinguishing Media No information available.**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.**Methods for cleaning up** Dam up. Take up mechanically and collect in suitable container for disposal. After cleaning, flush away traces with water.**Hazardous Substances (Emergency Management) Regulations 2001** No information available

7. HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep away from direct sunlight. Keep away from metals. Corrosive to metals.**Type of Container/Package** Store in original container

Handle and store according to AS/NZS Standards and the Responsible Care Management Systems: Managers Handbook.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION
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Chemical Name	OSH (New Zealand, 1/2002)
Potassium hydroxide	Ceiling: 2 mg/m ³
Sodium hydroxide	Ceiling: 2 mg/m ³

Engineering Controls Ensure adequate ventilation, especially in confined areas.**Personal Protective Equipment****Eye/face Protection** Tightly fitting safety goggles. Face-shield.**Skin Protection** Long sleeved clothing, Chemical resistant apron, Boots**Hand Protection** Neoprene gloves**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation wear suitable

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respiratory equipment.

General Hygiene Considerations

Keep away from food, drink and animal feedingstuffs. When using, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow
Physical state	Liquid
Odor	Pungent
pH	(1 %) 12.5
Vapor Pressure	No data available
Vapor Density	No data available
Flash Point	No data available
Autoignition Temperature	No data available
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Boiling Point/Range	No data available
Freezing Point/Range	No data available
Solubility	No information available
Solubility in other solvents	No data available
Specific Gravity	No data available
Density	1.360 g/mL

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks. Exposure to air or moisture over prolonged periods. Burning produces obnoxious and toxic fumes. Heating can release hazardous gases. To avoid thermal decomposition, do not overheat.
Incompatible Materials	Incompatible with strong acids and bases, Incompatible with oxidizing agents
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapours.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity**Inhalation**

No information available.

Eye contact

Corrosive.

Skin contact

Corrosive.

Ingestion

Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach. Harmful if swallowed.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	= 284 mg/kg (Rat)		
Sodium hydroxide	2000 mg/Kg	1350 mg/kg	
Tetrasodium EDTA	= 1658 mg/kg (Rat) = 10 g/kg (Rat)		

Irritation

No information available

Corrosivity

Corrosive.

Sensitization

No information available.

Mutagenic effects

No information available.

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Reproductive Effects

No information available.

Developmental Effects

No information available.

STOT - single exposure

No information available

STOT - repeated exposure

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Microtox	Waterflea
Potassium hydroxide		80: 96 h <i>Gambusia affinis</i> mg/L LC50 static		
Sodium hydroxide		LC50 (96 h) 72 mg/L		
Tetrasodium EDTA	1.01: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	41: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 59.8: 96 h <i>Pimephales promelas</i> mg/L LC50 static		610: 24 h <i>Daphnia magna</i> mg/L EC50

Persistence and degradability

No information available

Bioaccumulation/Accumulation

No information available.

Mobility

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

Dispose of in accordance with local regulations.

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14. TRANSPORT INFORMATION

UN-No	1719
Proper Shipping Name	1719 - Caustic alkali liquid, n.o.s (Sodium hydroxide, Potassium hydroxide)
Packing Group	III
Special Provisions	None
Hazchem Code	No information available

15. REGULATORY INFORMATION

ERMA NZ Registration Number Not Available**ERMA Group Standard** No information available**HSNO Classifications**
6.1D Substances that are acutely toxic
8.2C Substances that are corrosive to dermal tissue
8.3A Substances that are corrosive to the eye
8.1A Substances that are corrosive to metals**ERMA Reference** ERMA User Guide to the HSNO Controls, which links to the Hazardous Substances Regulations 2001

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16. OTHER INFORMATION

Prepared By DeLaval NV
Industriepark-Drongen 10
9031 Gent
Belgium

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References NZS 5433:2007 Transport of Dangerous Goods on Land
Land Transport (Dangerous Goods) Rule 45001:2005
Hazardous Substances Regulations 2001:
- Minimum Degrees of Hazard
- Classification
- Classes 1 to 5 Controls
- Classes 6, 8 and 9 Controls
- Packaging Regulations
- Identification Regulations
- Disposal Regulations
- Emergency Management
- Identification Regulations
- Disposal Regulations
Health and Safety in Employment Regulations 1995
User Guide to the HSNO Thresholds and Classifications
OSH Workplace Exposure Standards January 2002
NZCIC Approved Code of Practice - Preparation of Safety Data Sheets
Signage for premises storing hazardous substances and dangerous goods

Disclaimer

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End of SDS