

**Preparation Date:** 13-Jan-2017  
**Revision Number:** 2.2  
**Revision Date:** 25-Mar-2026  
**Date of Next Revision:** 24-Mar-2031

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

<b>Product Name</b>	Herd Navigator Detergent
<b>Item#:</b>	NZ0007
<b>Recommended use</b>	Cleansing agents, alkaline
<b>Uses advised against</b>	Restricted to professional users
<b>Supplier</b>	DeLaval Ltd, 82 Greenwood street, Hamilton New Zealand
<b>Telephone Number</b>	(07) 849-6020 (8am - 4:30pm Mon-Fri)
<b>Emergency Telephone Number</b>	0800 764 766 (National Poison Centre) 0800 243 622 CHEMCALL

## 2. HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture according to GHS

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

### 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 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell  
 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  
 P501 - Dispose of contents/container in accordance with local regulations

**Contains** potassium hydroxide, Sodium hydroxide, Tetrasodium EDTA

### 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%
Nitriiotriacetic acid trisodium salt	5064-31-3	0 - 1%

### 4. FIRST AID MEASURES

<b>Workplace Facilities</b>	Eyewash bottle with clean water
<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
<b>Eye contact</b>	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
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air If not breathing, give artificial respiration If breathing is difficult, give oxygen Call a physician or Poison Control Center immediately
<b>Ingestion</b>	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 Center immediately.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

### 5. FIRE-FIGHTING MEASURES

<b>Hazchem Code</b>	No Hazchem Code allocated
<b>Flammable Properties</b>	No information available.
<b>Suitable Extinguishing Media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. alcohol-resistant foam.
<b>Unsuitable Extinguishing Media</b>	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.

**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**

Chemical name	WES (New Zealand)
Potassium hydroxide	Ceiling: 2 mg/m <sup>3</sup>
Sodium Hydroxide	Ceiling: 2 mg/m <sup>3</sup>

**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 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

<b>Appearance</b>	Light yellow
<b>Physical state</b>	Liquid
<b>Odor</b>	Pungent
<b>Odor Threshold</b>	No information available
<b>pH</b>	(1 %) 12.5
<b>Melting Point/Range</b>	No data available
<b>Freezing Point/Range</b>	No data available
<b>Boiling Point/Range</b>	No data available
<b>Initial boiling point/range</b>	No data available
<b>Flash Point</b>	No data available
<b>Flammability (solid, gas)</b>	No information available
<b>Upper flammability limit:</b>	No data available
<b>Lower flammability limit:</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility</b>	No information available
<b>Solubility in other solvents</b>	No data available
<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Kinematic viscosity</b>	No data available
<b>Particle characteristics</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Liquid Density</b>	1.360 g/mL
<b>Corrosive to metals</b>	Corrosive to metals

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	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.
<b>Incompatible Materials</b>	Incompatible with strong acids and bases, Incompatible with oxidizing agents
<b>Hazardous decomposition products</b>	Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**  
**Inhalation** No information available.  
**Eye contact** No information available.  
**Skin contact** No information available.  
**Ingestion** Harmful if swallowed.

**Component Information**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	214 mg/kg (Rat)		
Sodium Hydroxide	-	1350 mg/kg (Rabbit)	-
Tetrasodium EDTA	1658 mg/kg (Rat)		1.5 mg/L (ATE - D/M)
Nitilotriacetic acid trisodium salt	= 1100 mg/kg ( Rat )		> 5 mg/L ( Rat ) 4 h

**Skin corrosion/irritation** Causes severe skin burns  
**Serious eye damage/eye irritation** Causes serious eye damage

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met  
**Germ cell mutagenicity** Based on available data, the classification criteria are not met  
**Carcinogenicity** There are no known carcinogenic chemicals in this product.

<b>Chemical name</b>	Nitilotriacetic acid trisodium salt
<b>IARC</b>	Group 2B

**Reproductive toxicity** Based on available data, the classification criteria are not met  
**Developmental Effects** No information available.  
**STOT - single exposure** No information available  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sodium Hydroxide		LC 50 (96 h) 45.4 mg/l (Oncorhynchus mykiss)		EC50 (48 hour): 40.4 mg/l (Ceriodaphnia dubia) >100 mg/l (daphnia) (OECD 202)
Tetrasodium EDTA		41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static		
Nitrilotriacetic acid trisodium salt		175 - 225: 96 h Lepomis macrochirus mg/L LC50 static 560 - 1000: 96 h Oryzias latipes mg/L LC50 560 - 1000: 96 h Oryzias latipes mg/L LC50 semi-static 560 - 1000: 96 h Poecilia reticulata mg/L LC50 560 - 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 72 - 133: 96 h Oncorhynchus mykiss mg/L LC50 static 93 - 170: 96 h Pimephales promelas mg/L LC50 flow-through 114: 96 h Pimephales promelas mg/L LC50 252: 96 h Lepomis macrochirus mg/L LC50 470: 96 h Pimephales promelas mg/L LC50 static	EC50 3200 - 5600 mg/L 8 h	560 - 1000: 48 h Daphnia magna mg/L LC50

<b>Persistence and degradability</b>	No information available
<b>Bioaccumulation/Accumulation</b>	No information available.
<b>Mobility</b>	No information available
<b>Other adverse effects</b>	No information available
<b>Biodegradation</b>	Some ingredients of this material have some potential to biodegrade, but most ingredients have a limited potential to biodegrade or have not been tested.

13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Should not be released into the environment. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.
<b>Contaminated Packaging</b>	Dispose of in accordance with local regulations.

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**14. TRANSPORT INFORMATION**

<b>Proper Shipping Name</b>	1719 - Caustic alkali liquid, n.o.s ( Sodium hydroxide, Potassium hydroxide )
<b>Transport hazard class(es)</b>	8
<b>Packing Group</b>	III
<b>Environmental hazard</b>	No information available
<b>Hazchem Code</b>	No Hazchem Code allocated

**15. REGULATORY INFORMATION**

<b>EPA Group Standard</b>	Cleaning Products - (Corrosive) Group Standard 2020 HSR002526
<b>EPA Reference</b>	Guidance to the changes introduced by the Health and Safety at Work (Hazardous Substances) Regulations 2017

**16. OTHER INFORMATION**

<b>Prepared By</b>	DeLaval NV Industriepark-Drongen 10 9031 Gent Belgium
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<b>Reason for revision</b>	Update Section: 15 (+ group standard)
<b>References</b>	<ul style="list-style-type: none"><li>- Hazardous Substances (Hazardous Classification) Notice 2020</li><li>- Hazardous substances (Labelling) Notice 2017</li><li>- Hazardous Substances (Safety Data Sheets) Notice 2017</li><li>- European Agreement concerning the International Carriage of Dangerous Goods by Road</li><li>- New Zealand Workplace Exposure Standards (WES)</li><li>- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans</li><li>- Chemical Classification and Information Database (CCID)</li></ul>

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**End of SDS**