

SAFETY DATA SHEET

Herd Navigator Detergent

Preparation Date: 22-Nov-2017
Revision Number: 1.1
Date of last revision: 16-Jun-2022

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
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Product Name	Herd Navigator Detergent
Item#:	AUS00005
Recommended use	Cleansing agents, alkaline
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
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Emergency Telephone Number	131 126 (Poison Control Centre)
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2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Acute toxicity - Oral - Category 4
 Skin corrosion/irritation - Category 1
 Serious eye damage/eye irritation - Category 1
 Physical hazards - 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 + 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

Note

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Water	7732-18-5	> 60%
Potassium hydroxide	1310-58-3	10 - 30%
Sodium hydroxide	1310-73-2	10 - 30%
Tetrasodium EDTA	64-02-8	1 - 10%
Tetrasodium hydrogen 2-phosphonatobutane-1,2,4-tricarboxylate	66669-53-2	0 - 1%

4. FIRST AID MEASURES

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 Center 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 Center immediately.
Effects of overexposure	No information available
Indication of any immediate medical attention and special treatment needed	No information available
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO ₂). Water spray. alcohol-resistant foam.
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.
Hazchem Code	No information available

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

Safe Handling Advice	Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.
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.
Incompatible products	No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls**Exposure limits** No exposure standard allocated

Chemical name	ES-TWA	ES-STEL	ES-Peak
Potassium hydroxide			2 mg/m ³
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, 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

Appearance	Light yellow
Physical state	Liquid
Odor	Pungent
Odor Threshold	No information available
pH	No data available
pH (1%)	(1 %) 12.5
Specific Gravity	No data available
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
Liquid Density	1.360 g/mL
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 normal conditions.
Possibility of hazardous reactions	None under normal use
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
Hazardous Polymerization	None under normal processing. Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Inhalation	No information available.
Skin contact	No information available.

Ingestion Harmful if swallowed.

**Component Analysis -
LD50/LC50**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water 7732-18-5	> 90 mL/kg (Rat)		
Potassium hydroxide 1310-58-3	= 214 mg/kg (Rat)		
Sodium hydroxide 1310-73-2	2000 mg/Kg	1350 mg/kg	
Tetrasodium EDTA 64-02-8	1658 mg/kg (Rat)		1.5 mg/L (ATE - D/M)
Tetrasodium hydrogen 2-phosphonatobutane-1,2,4-tricarb oxylate 66669-53-2	> 4 g/kg (Rat)		

Potential Health Effects

Skin Corrosion/Irritation Causes skin burns.

Serious eye damage/eye irritation Causes eye burns. Causes serious eye damage.

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

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Potassium hydroxide		80: 96 h Gambusia		

		affinis mg/L LC50 static	
Sodium hydroxide		LC 50 (96 h) 45.4 mg/l (Oncorhynchus mykiss)	EC50 (48h): 40.4 mg/l (Ceriodaphnia dubia)
Tetrasodium EDTA	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	610: 24 h Daphnia magna mg/L EC50

Persistence and degradability No information available

Bioaccumulation/Accumulation No information available.

Mobility No information available.

Other adverse effects No information available

Biodegradation 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

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.

Personal precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.

14. TRANSPORT INFORMATION

Road and Rail transport

UN-No 1719
Proper Shipping Name 1719 - Caustic alkali liquid, n.o.s (Sodium hydroxide, Potassium hydroxide)
Technical name Not regulated
Hazard Class 8
Subsidiary Class 80
Packing Group II
Environmental hazard No information available
Special Precautions LQ 1L (inner packaging)
Hazchem Code No information available

IMDG/IMO

UN number or ID number 1719
Proper shipping name 1719 - Caustic alkali liquid, n.o.s
Technical name Not regulated
Transport hazard class(es) 8
Packing Group II
IMDG Marine Pollutant No information available

IATA/ICAO

UN number or ID number	1719
Proper Shipping Name	1719 - Caustic alkali liquid, n.o.s
Technical name	Not regulated
Transport hazard class(es)	8
Packing group	II

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture No information available

Poison Schedule Number No information available

16. OTHER INFORMATION

Prepared By DeLaval NV
Industriepark-Drongen 10
9031 Gent
Belgium

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Reason for revision Supplier Address.

Disclaimer

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End of SDS