

PRODUCT NAME: Labdet 100

DWS Product Code: D00003

Date of preparation: 23 March 2016

Supersedes version dated: January 2010

1.	Identification of the substance / mixture and of the company / undertaking	
1.1	Product Identifier	Product name: Labdet 100 DWS product code: D00003
1.2	Relevant identified uses of the substance or mixture and uses advised against	Detergent (cleaning agent) for laboratory use.
1.3	Details of the supplier of the safety data sheet	Don Whitley Scientific Limited, Victoria Works, Victoria Street, Bingley, West Yorkshire, BD16 2NH, United Kingdom.
1.4	Emergency telephone number:	+44 (0)1274 595728 [0900-1700 UK time]
2.	Hazards identification	
2.1	Classification of the substance or mixture	Met. Corr. 1: H290; STOT RE 2: H373; Acute Tox. 4: H332; Eye Irrit. 2: H319; Skin Irrit. 2 - H315
2.2	Label elements	Signal word: Warning Hazard statements:
		H290 – May be corrosive to metals
		H315 – Causes skin irritation
		H319 – Causes serious eye irritation H332 – Harmful if inhaled
		H373 – May cause damage to organs [lungs] through prolonged or repeated exposure [inhalation of mist]
		Precautionary statements: P264 Wash contaminated skin thoroughly after handling. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
2.3	Other hazards	This product does not contain any substances classified as PBT or vPvB

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## 3. Composition / information on ingredients

#### 3.2 Mixtures

Tetrasodium ethylenediamine tetraacetate: 10 - 20%

CAS no: 64-02-8 EC no: 200-573-9 REACH registration no: 01-2119486762-27-XXXX Classification: Acute Tox. 4: H332; Acute Tox. 4: H302; Eye Dam. 1: H318; STOT RE 2: H373

Alcohols, C12-14, ethoxylated, sulfates, sodium salts: 1 – 2%

CAS no: 68891-38-3 EC no: 500-234-8 REACH registration no: 01-2119488639-16

Classification: Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Aquatic Chronic 3 - H412

Glycine, n-(carboxymethyl)-n-[2-[(carboxymethyl)amino]ethyl]-, sodium salt: 1 - 2%

Classification: Eye Irrit. 2: H319 **Sodium glycollate: 1 – 2%** 

CAS no: 2836-32-0 EC no: 220-624-9

Classification: Skin Irrit. 2: H315; Eye Dam. 1: H318

Trisodium nitrilotriacetate: 1 - 2%

Classification: Acute Tox. 4: H302; Eye Irrit. 2: H319; Carc. 2: H351

Sodium hydroxide: < 0.5%

CAS no: 1310-73-2 EC no: 215-185-5 REACH registration no: 01-2119457892-27-XXXX

Classification: Skin Corr. 1A: H314

### 4. First aid measures

4.1	Description of first aid measures	Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.  Ingestion: Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.  Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if symptoms occur after washing.  Eye contact: Rinse immediately with plenty of clean water. Remove contact lenses (if present and easy to do) and open eyelids wide apart. Continue to rinse for at least 15 minutes. Transfer to hospital for specialist examination.
4.2	Most important symptoms and effects, both acute and delayed	Skin contact: There may be irritation and redness at the site of contact.  Eye contact: There may be irritation and redness.  Ingestion: There may be soreness and redness of the mouth and throat.  Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.  Delayed effects: No data available.
4.3	Indication of any immediate medical attention and special treatment needed	Treat symptomatically. Show this safety data sheet to the doctor in attendance.

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5.	Firefighting measures		
5.1	Extingui	ishing media:	Suitable extinguishing media for the surrounding fire should be used.
5.2	•	hazards arising from the ce or mixture	In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides.
5.3	Advice f	for firefighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
6.	Accide	ntal release measures	
6.1		al precautions, protective ent and emergency procedures	Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.
6.2	Environ	mental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environment Agency or other appropriate regulatory body.
6.3		s and material for containment aning up	Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
6.4	Referen	ce to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.
7.	Handlir	ng and storage	
7.1	Precaut	ions for safe handling	Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid formation or spread of mists in the air.
7.2		ons for safe storage, including ompatibilities	Store in tightly-closed, original container in a dry, cool and well-ventilated place.
7.3	Specific	end use(s)	Identified uses for this product are shown in Section 1.2.
8.	Exposu	re controls / personal protection	on
8.1	Control	parameters	
	Workplace exposure limits: No data available.		
	DNEL / PNEC values:		
	Tetrasodium ethylenediamine tetraacetate (CAS no: 64-02-8)		
	DNEL Industry - Inhalation; Systemic effects: 2.5 mg/ m³ Industry - Inhalation; Local effects: 2.5 mg/ m³ Consumer - Oral; Systemic effects: 25 mg/kg/day Consumer - Inhalation; Systemic effects: 1.5 mg/m³ Consumer - Inhalation; Local effects: 1.5 mg/ m³		
	PNEC	Fresh water: 2.2 mg/l Sewage treatment plant: 43 mg	Soil (agricultural): 0.72 mg/kg /l Marine water: 0.22 mg/l

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Alcohols, C12-14, ethoxylated, sulfates, sodium salts (CAS no: 68891-38-3)

DNEL Industry - Dermal; Systemic effects: 2750 mg/kg/day

Industry - Inhalation; Systemic effects: 175 mg/m<sup>3</sup> Consumer - Dermal; Systemic effects: 1650 mg/kg/day Consumer - Oral; Systemic effects: 15 mg/kg/day Consumer - Inhalation; Systemic effects: 52 mg/m<sup>3</sup>

**PNEC** Fresh water: 0.24 mg/l

Sewage treatment plant: 10000 mg/l

Intermittent release: 0.071 mg/l

Sediment (Marine water): 0.545 mg/kg

Soil: 0.946 mg/kg Marine water: 0.024 mg/l

Sediment (Freshwater): 5.45 mg/kg

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Individual protection measures, such as personal protective equipment

Ensure sufficient ventilation of the work area.

Eye / face protection: Chemical safety goggles. Hand protection: Chemical resistant, impermeable gloves complying with an approved standard (such as EN374). The most suitable glove should be chosen in consultation with the glove supplier, who can provide information about the breakthrough time of the glove material. Butyl rubber, nitrile rubber, neoprene or PVC gloves are suitable.

Other skin and body protection: Wear appropriate

clothing to prevent possibility of skin contact.

Hygiene measures: Wash hands after handling. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

Physical and chemical properties 9.

9.1 Information on basic physical properties and chemical properties

> **Appearance** Liquid – colourless to pale yellow.

Odour Slight.

Odour threshold Data lacking.

рΗ 11 - 12 (as supplied)

Melting point <0°C

Boiling point and range Approximately 100°C

>125°C Flash point Evaporation rate Data lacking

Upper / lower flammability or

explosive limits

Vapour pressure Data lacking

Vapour density Data lacking

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Data lacking



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11	Toxicological information	
10.6	Hazardous decomposition products	In combustion emits toxic fumes.
10.5	moompatible materials	agents.
10.5	Incompatible materials	hot surfaces and flames.  Strong oxidizing agents. Strong acids. Strong reducing
10.4	Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid
10.3	Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions.
10.2	Descibility of horordous resetions	Store between 5°C and 40°C (41 to 104°F)
10.2	Chemical stability	Stable at normal ambient temperatures.
10.1	Reactivity	There are no known reactivity hazards associated with this product.
10.	Stability and reactivity	
9.2	Other information	No other information available.
	Oxidizing properties	Data lacking
	Explosive properties	Data lacking
	Viscosity	Data lacking
	Decomposition temperature	Data lacking
	Auto-ignition temperature	Data lacking
	Partition coefficient	Data lacking
	Solubility	Soluble in water
	Relative density	Approximately 1.1 at 20°C

## 11. Toxicological information

## 11.1 Information on toxicological effects

## **Hazardous ingredients:**

Tetrasodium ethylenediamine tetraacetate (CAS no: 64-02-8)

Acute toxicity - oral: 1780 - <2000 mg/kg (rat; OECD 401)

Acute toxicity - dermal: No data available Skin sensitization: No data available Genotoxicity *in vitro*: No data available

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (CAS no: 68891-38-3)

Acute toxicity - oral: 4100 mg/kg (rat; OECD 401) Acute toxicity - dermal: >2000 mg/kg (rat; OECD 402)

Skin sensitization: Not sensitizing

Genotoxicity in vitro: Bacterial reverse mutation test - Negative

## Relevant hazards for mixture:

Acute toxicity (ac. tox. 4) inhalation: Hazardous (calculated)
Serious eye damage/irritation: Hazardous (calculated)
STOT-repeated exposure: Hazardous (calculated)

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		1	
	Excluded hazards for mixture:		
	Acute toxicity (ac. tox. 2):  Acute toxicity (ac. tox. 1):  Skin corrosion/irritation:  Respiratory/skin sensitisation:  Germ cell mutagenicity:  Carcinogenicity:  Reproductive toxicity:  STOT-single exposure:	hazard (calculated)	
12.	Ecological information	Tidzara (carcaratoa)	
12.1	Toxicity		
	Ecotoxicity data for hazardous ingred	ients:	
	Tetrasodium ethylenediamine tetraacetate (CAS no: 64-02-8)		
	Acute toxicity (fish) – $LC_{50}$ , 96 h, 96 h: >100 mg/l, Lepomis macrochirus (Bluegill) – OECD 203 Acute toxicity (aquatic invertebrates) – $EC_{50}$ , 48 h, 48 h: >100 mg/l, Daphnia magna – OECD 202 Acute toxicity (aquatic plants) – $EC_{50}$ , 72 h, 72 h: >100 mg/l, Freshwater algae – OECD 201		
	Alcohols, C12-14, ethoxylated, sulfates, sodium salts (CAS no: 68891-38-3)		
	Acute toxicity (fish) – $LC_{50}$ , 96 h, 96 h: 7.1 mg/l, <i>Brachydanio rerio</i> (Zebra Fish) – OECD 203 Acute toxicity (aquatic invertebrates) – $EC_{50}$ , 48 h, 48 h: 7.4mg/l, <i>Daphnia magna</i> – OECD 202 Acute toxicity (aquatic plants) – $EC_{50}$ , 72 h, 72 h: 27.7 mg/l, Freshwater algae – OECD 201		
12.2	Persistence and degradability	This product is readily biodegradable. The surfactant(s) contained in this product comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.	
12.3	Bioaccumulative potential	No bioaccumulation potential.	
12.4	Mobility in soil	Readily absorbed into soil.	
12.5	Results of PBT and vPvB assessment	This product is not classified as PBT or vPvB according to current EU criteria.	
12.6	Other adverse effects	Not known.	
13.	Disposal considerations		
13.1	Waste treatment methods		
	Disposal of product:	Transfer to a suitable container and dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.	
	Disposal of packaging:	Dispose of as described above for product. Alternatively, packaging may be rinsed well with water and then recycled at a suitable facility.	

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14.	Transport information	
	General:	Product is not covered by international regulations on the transport of dangerous goods (IMDG, ICAO, ADR / RID)
14.1	UN Number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Environmentally hazardous: No Marine pollutant: No
14.6	Special precautions for user	Not applicable
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
15.	Regulatory information	
15.1	Safety, health and environmental regulations / legislation specific for the substance or mixture	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). The surfactant(s) contained in this product comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.
15.2	Chemical safety assessment	No chemical safety assessment has been carried out for the mixture.
16.	Other information	
	Full text of hazard statements and preca	utionary statements used in sections 2 and 3:
	H290 – May be corrosive to metals H302 – Harmful if swallowed H314 – Causes severe skin burns and eye damage H315 – Causes skin irritation H318 – Causes serious eye damage H319 – Causes serious eye irritation H332 – Harmful if inhaled H351 – Suspected of causing cancer H373 – May cause damage to organs [lungs] through prolonged or repeated exposure [inhalation of mist] H412 – Harmful to aquatic life with long-lasting effects	P264 Wash contaminated skin thoroughly after handling. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Revision comments: This SDS has been revised (additional data provided) to comply with the requirement Regulation (EC) 1907/2006 as amended by Commission Regulation (EU) 2015/830.		

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