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SAFETY DATA SHEET
Deb OxyBac
According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Deb OxyBac

Product number OXY1L, OXY12LTF, OXY1LSFX, OXY1LDSRS, OXY1LTRRS, OXY2LT, 7754814, OXY1LBG

Synonyms; trade names Deb OxyBAC Extra

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses PT1 Human Hygiene Biocidal Product

1.3. Details of the supplier of the safety data sheet

Supplier

Pakex (UK) Plc
1 Prime Point
Bessemer Road
Welwyn Garden City
Herts
AL7 1FE
Main Tel: 01707 384858
Fax: 01707 332838
sales@pakexuk.com

1.4. Emergency telephone number

Emergency telephone National Poisons Information Service (UK) 0344 8920111 (Health Professionals only)
National Poisons Information Centre (Eire) 01-8092566/8379964

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Environmental The product does not meet the requirement for classification as an environmental hazard in accordance with directive 1999/45/EEC

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P401 Store in accordance with local regulations.
P501 Dispose of contents/ container in accordance with local regulations.

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Supplemental label information	Eye protection not required normally but wear eye protection if you are conducting an operation where there is a risk of this product getting in the eyes. BPR001 Use biocides safely. Always read the label and product information before use.
Detergent labelling	< 5% disinfectants, < 5% non-ionic surfactants, Contains PHENOXYETHANOL, Benzoic acid

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

GLYCERIN **1-5%**

CAS number: 56-81-5 EC number: 200-289-5 REACH registration number: 01-2119471987-18-XXXX

Classification	Classification (67/548/EEC or 1999/45/EC)
Not Classified	-

LAURAMINE OXIDE **1-5%**

CAS number: 1643-20-5

M factor (Acute) = 1

Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	Xn;R22. Xi;R38,R41. N;R50.

PHOSPHORIC ACID **1-5%**

CAS number: 7664-38-2 EC number: 231-633-2 REACH registration number: 01-2119485924-24-XXXX

Classification	Classification (67/548/EEC or 1999/45/EC)
Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318	C;R34

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HYDROGEN PEROXIDE SOLUTION		**1-5%**
CAS number: 7722-84-1	EC number: 231-765-0	REACH registration number: 01-2119485845-22-XXXX

Classification	**Classification (67/548/EEC or 1999/45/EC)**
Ox. Liq. 1 - H271 Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Chronic 3 - H412	R5 O;R8 C;R35 Xn;R20/22

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Not relevant. Unlikely route of exposure as the product does not contain volatile substances.

Ingestion Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact Rinse with water.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact None.

Eye contact May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products No known hazardous decomposition products.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

6.2. Environmental precautions

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Environmental precautions Not considered to be a significant hazard due to the small quantities used.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Flush away spillage with plenty of water. Avoid contamination of ponds or watercourses with washing down water. Absorb spillage with non-combustible, absorbent material. Do not discharge into drains or watercourses or onto the ground.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

GLYCERIN

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

PHOSPHORIC ACID

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³
Short-term exposure limit (15-minute): WEL 2 mg/m³

HYDROGEN PEROXIDE SOLUTION

Long-term exposure limit (8-hour TWA): WEL 1 ppm 1.4 mg/m³
Short-term exposure limit (15-minute): WEL 2 ppm 2.8 mg/m³
WEL = Workplace Exposure Limit

Ingredient comments None.

BUTYLENE GLYCOL (CAS: 107-88-0)

DNEL General population - Oral; Long term systemic effects: 25 mg/kg/day

PNEC
- Fresh water; 0.85 mg/l
- Marine water; 0.085 mg/l
- Intermittent release; 2 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 1.78 mg/kg
- Sediment (Marinewater); 0.178 mg/kg
- Soil; 0.13 mg/kg

PHOSPHORIC ACID (CAS: 7664-38-2)

DNEL
Workers - Inhalation; Long term local effects: 1 mg/m³
Workers - Inhalation; Short term local effects: 2 mg/m³
General population - Inhalation; Long term local effects: 0.73 mg/m³

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HYDROGEN PEROXIDE SOLUTION (CAS: 7722-84-1)

DNEL

Workers - Inhalation; Long term local effects: 1.4 mg/m³
Workers - Inhalation; Short term local effects: 3 mg/m³
General population - Inhalation; Long term local effects: 0.21 mg/m³
General population - Inhalation; Short term local effects: 1.93 mg/m³

PNEC

- Marine water; 0.0126 mg/l
- Fresh water; 0.0126 mg/l
- Sediment (Freshwater); 0.0103 mg/kg
- Soil; 0.0023 mg/kg
- Sediment (Marinewater); 0.047 mg/kg
- Intermittent release; 0.0138 mg/kg
- STP; 4.66 mg/l

PHENOXYETHANOL (CAS: 122-99-6)

DNEL

Workers - Inhalation; Long term systemic effects: 8.07 mg/m³
Workers - Inhalation; Long term local effects: 8.07 mg/m³
Workers - Dermal; Long term systemic effects: 34.72 mg/kg/day
General population - Inhalation; Long term systemic effects: 2.41 mg/kg/day
General population - Inhalation; Long term local effects: 2.41 mg/m³
General population - Dermal; Long term systemic effects: 20.83 mg/kg/day
General population - Oral; Long term systemic effects: 17.43 mg/kg/day
General population - Oral; Short term systemic effects: 17.43 mg/kg/day

PNEC

- Fresh water; 0.943 mg/l
- Marine water; 0.0943 mg/l
- Intermittent release; 3.44 mg/l
- STP; 24.8 mg/l
- Sediment (Freshwater); 7.2366 mg/kg
- Sediment (Marinewater); 0.7237 mg/kg
- Soil; 1.26 mg/kg

Salycylic Acid (CAS: 69-72-7)

DNEL

Workers - Inhalation; Long term systemic effects: 5 mg/m³
Workers - Inhalation; Long term local effects: 5 mg/m³
Workers - Dermal; Long term systemic effects: 2.3 mg/kg/day
General population - Inhalation; Long term systemic effects: 4 mg/m³
General population - Dermal; Long term systemic effects: 1 mg/kg/day
General population - Oral; Long term systemic effects: 1 mg/kg/day
General population - Oral; Short term systemic effects: 4 mg/kg/day

PNEC

- Fresh water; 0.2 mg/l
- Marine water; 0.02 mg/l
- Intermittent release; 1 mg/l
- Sediment (Marinewater); 0.142 mg/kg
- Soil; 0.166 mg/kg
- STP; 162 mg/l
- Sediment (Freshwater); 1.42 mg/kg

Benzoic acid (CAS: 65-85-0)

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DNEL	Industry - Dermal; Long term local effects: 4.5 mg/kg/day Industry - Inhalation; Long term local effects: 6.3 mg/m³ Consumer - Inhalation; Long term systemic effects: 2.1 mg/m³ Consumer - Dermal; Long term systemic effects: 20.8 mg/kg/day Consumer - Oral; Long term systemic effects: 25 mg/kg/day Industry - Dermal; Long term systemic effects: 34.7 mg/kg/day Industry - Inhalation; Long term systemic effects: 10.4 mg/m³ Consumer - Inhalation; Long term local effects: 1.3 mg/m³ Consumer - Dermal; Long term local effects: 2.7 mg/kg/day
PNEC	- Fresh water; 0.34 mg/l - Marine water; 0.34 mg/l - STP; 100 mg/l - Intermittent release; 3.3 mg/l - Sediment (Freshwater); 1.75 mg/kg - Sediment (Marinewater); 1.75 mg/kg - Soil; 0.151 mg/kg

8.2. Exposure controls

Appropriate engineering controls	Not relevant.
Eye/face protection	Not required normally but wear eye protection if you are conducting an operation where there is a risk of this product getting in the eyes.
Hand protection	Hand protection not required.
Respiratory protection	No specific recommendations.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless.
Odour	Characteristic.
Odour threshold	Not determined.
pH	pH (concentrated solution): 2.0 -2.5
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Scientifically unjustified.
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Scientifically unjustified.
Vapour density	Not determined.
Relative density	Not determined.
Solubility(ies)	Soluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	Scientifically unjustified.

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Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Scientifically unjustified.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The following materials may react violently with the product: Strong reducing agents.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not known.

10.4. Conditions to avoid

Conditions to avoid	Avoid contact with strong reducing agents.

10.5. Incompatible materials

Materials to avoid	Strong reducing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Respiratory Sensitisation

Eye Irritation/Damage

Skin Sensitisation

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	20,327.07

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.
ATE inhalation (gases ppm)	428,571.43
ATE inhalation (vapours mg/l)	1,047.62
ATE inhalation (dusts/mists mg/l)	142.86

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Skin corrosion/irritation

Human skin model test	OECD 439 EPISKIN Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	OECD 438 Not irritating.

Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vivo	Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity	Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - development	Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	Not anticipated to present an aspiration hazard based on chemical structure.

Inhalation	No specific health hazards known.
Ingestion	May cause discomfort if swallowed.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	May cause temporary eye irritation.

LAURAMINE OXIDE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,064.0
Species	Rat
ATE oral (mg/kg)	1,064.0

PHOSPHORIC ACID

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,600.0
Species	Rat
ATE oral (mg/kg)	2,600.0

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Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,740.0
Species	Rabbit
ATE dermal (mg/kg)	2,740.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	25.5
Species	Mouse
ATE inhalation (vapours mg/l)	25.5

Skin corrosion/irritation

Animal data Erythema/eschar score: Severe erythema (beef redness) to eschar formation preventing grading of erythema (4). Oedema score: Moderate oedema - raised approximately 1 mm (3). Primary dermal irritation index: 6.6

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Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,193.0
Species	Rat Rat
ATE oral (mg/kg)	500.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit

Acute toxicity - inhalation

ATE inhalation (gases ppm)	4,500.0
ATE inhalation (vapours mg/l)	11.0
ATE inhalation (dusts/mists mg/l)	1.5

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity The product is not expected to be hazardous to the environment.

LAURAMINE OXIDE

Acute aquatic toxicity

$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1

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M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 2.67 mg/l, Algae
Acute toxicity - aquatic invertebrates	EC_{50}, 72 hours: 3.1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 72 hours: 0.19 mg/l, Freshwater algae
Acute toxicity - microorganisms	EC10, 24 hour: 80 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability	The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not applicable.

12.4. Mobility in soil

Mobility	The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects	None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	When handling waste, the safety precautions applying to handling of the product should be considered.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Reuse or recycle products wherever possible.

SECTION 14: Transport information

Road transport notes	Not classified.
Rail transport notes	Not classified.
Sea transport notes	Not classified.
Air transport notes	Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

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14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation 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).
REGULATION (EU) No 528/2012 (as amended) concerning the making available on the market and use of biocidal products.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information Use biocides safely. Always read the label and product information before use.

Key literature references and sources for data Where Exposure Scenarios for the substances listed in Section 3 are available they have been assessed for the uses identified in this data sheet or on the product label and the appropriate relevant information is incorporated into this Safety Data Sheet.

Revision comments This is first issue.

Revision date 20/01/2017

Revision 9

Supersedes date 29/02/2016

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Risk phrases in full

Not classified.
R20/22 Harmful by inhalation and if swallowed.
R22 Harmful if swallowed.
R34 Causes burns.
R35 Causes severe burns.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R5 Heating may cause an explosion.
R50 Very toxic to aquatic organisms.
R8 Contact with combustible material may cause fire.

Hazard statements in full

H271 May cause fire or explosion; strong oxidiser.
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.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

Notes for Risk Phrases and Hazard Statements in Full The full text for Risk Phrases and Hazard Statements in section 16 relates to the reference numbers in sections 2 and 3 and not necessarily the finished product classification.