

SAFETY DATA SHEET L3 PREMIUM SCRUBBER DRYER CONCENTRATE

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

1.1. Product identifier

Product name : L3 Premium Scrubber Dryer Concentrate

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

1.2.1. Relevant identified uses

Professional use.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of product safety information sheet

Supplier Orca Hygiene

Blackhouse Circle,

Blackhouse Industrial Estate, Peterhead, AB42 1BN +44 (0)1779 871945

technical@orcahygiene.com

Contact person For content of safety data sheet: technical@orcahygiene.com

Manufacturer Orca Hygiene

Blackhouse Circle,

Blackhouse Industrial Estate, Peterhead, AB42 1BN +44 (0)1779 871945

technical@orcahygiene.com

1.4. Emergency telephone number

Emergency telephone +44 (0)1779 871945

National emergency telephone For the emergency services - the ambulance, police and fire services - Tel: 999 /

number When you need medical advice or treatment but it is not an emergency - Tel: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1 H314

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS05

Signal word (CLP) : Danger

Contains : sodium hydroxide; caustic soda

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection.

P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce

vomiting. Immediately call a doctor.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a doctor.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hydroxide; caustic soda substance with national workplace exposure limit(s) (GB)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	1 – 5	Skin Corr. 1A, H314
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve substance with a Community workplace exposure limit	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01- 2119475108-36	1 – 5	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED 2-Propyl-heptanol, ethoxylated	CAS-No.: 78330-21-9 CAS-No.: 160875-66-1	1-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Acute Tox. 4 (Oral), H302
β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts	CAS-No.: 90170-43-7 EC-No.: 290-476-8	0.1 – 5	Eye Irrit. 2, H319

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2	(0.5 ≤C < 2) Skin Irrit. 2, H315
	EC-No.: 215-185-5	(0.5 ≤C < 2) Eye Irrit. 2, H319
	EC Index-No.: 011-002-00-6	(2 ≤C < 5) Skin Corr. 1B, H314
		(5 ≤C ≤ 100) Skin Corr. 1A, H314

Full text of H- and EUH-statements; see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Call a physician immediately.

First-aid measures after skin contact : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after eye contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.

Call a physician immediately.

First-aid measures after ingestion : Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician immediately.

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

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-

contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further

information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do

not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective

equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using

this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (111-76-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	2-Butoxyethanol	
IOEL TWA	98 mg/m³	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	246 mg/m³	
IOEL STEL [ppm]	50 ppm	
sodium hydroxide; caustic soda (1310-73-2)		
United Kingdom - Occupational Exposure Limits		
Local name	Sodium hydroxide	
WEL STEL (OEL STEL)	2 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Disposable gloves. Wear suitable gloves tested to EN374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

Melting point

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Yellow.
Odour
Odour threshold : Characteristic.
Odour threshold : No data available
pH : 12.8 - 13.3
Relative evaporation rate (butylacetate=1) : No data available

: Not applicable

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Freezing point : No data available : No data available **Boiling point** Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable : No data available Vapour pressure : No data available Relative vapour density at 20 °C Relative density : 1.048 - 1.052 Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (111-76-2)	
LD50 oral rat	> 470 mg/kg bodyweight
LD50 oral	> 1230 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours) > 5.2 mg/l/4h	

Skin corrosion/irritation : Not classified

pH: 12.8 - 13.3

Serious eye damage/irritation : Not classified

pH: 12.8 - 13.3

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts (90170-43-7)		
LOAEL (oral, rat, 90 days)	160 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined	
	Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity	
	Screening Test)	
NOAEL (oral, rat, 90 days)	43 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined	
	Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity	
	Screening Test)	

Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

: The product is not considered harmful to aquatic organisms nor to cause long-Ecology - general

term adverse effects in the environment.

Hazardous to the aquatic environment, short- : Not classified

term (acute)

Hazardous to the aquatic environment, long-: Not classified

term (chronic)

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (111-76-2)		
LC50 - Fish [1]	1550 mg/l	
EC50 - Crustacea [1]	1550 mg/l	
EC50 72h - Algae [1]	911 mg/l	
sodium hydroxide; caustic soda (1310-73-2)		
EC50 - Crustacea [1]	40.4 mg/l Test organisms (species): Ceriodaphnia sp.	
β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts (90170-43-7)		
LC50 - Fish [1]	≈ 4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name:	
	Salmo gairdneri)	
EC50 - Crustacea [1]	≈ 29 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	≈ 5.5 mg/l Test organisms (species): Chlorella vulgaris	
EC50 72h - Algae [2]	≈ 9.4 mg/l Test organisms (species): Chlorella vulgaris	
NOEC (chronic)	≈ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	3.2 mg/l	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting

instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3267	UN 3267	UN 3267	UN 3267	UN 3267
14.2. UN proper ship	14.2. UN proper shipping name			
CORROSIVE LIQUID,	CORROSIVE LIQUID,	Corrosive liquid, basic,	CORROSIVE LIQUID,	CORROSIVE LIQUID,
BASIC, ORGANIC,	BASIC, ORGANIC,	organic, n.o.s.	BASIC, ORGANIC,	BASIC, ORGANIC,
N.O.S. (SODIUM	N.O.S. (SODIUM	(SODIUM	N.O.S. (SODIUM	N.O.S. (SODIUM
HYDROXIDE)	HYDROXIDE)	HYDROXIDE)	HYDROXIDE)	HYDROXIDE)
Transport document de				
UN 3267 CORROSIVE	UN 3267 CORROSIVE	UN 3267 Corrosive	UN 3267 CORROSIVE	UN 3267 CORROSIVE
LIQUID, BASIC,	LIQUID, BASIC,	liquid, basic, organic,	LIQUID, BASIC,	LIQUID, BASIC,
ORGANIC, N.O.S.	ORGANIC, N.O.S.	n.o.s. (SODIUM	ORGANIC, N.O.S.	ORGANIC, N.O.S.
(SODIUM	(SODIUM	HYDROXIDE), 8, III	(SODIUM	(SODIUM
HYDROXIDE), 8, III,	HYDROXIDE), 8, III		HYDROXIDE), 8, III	HYDROXIDE), 8, III
(E)				
14.3. Transport hazaı	rd class(es)			
8	8	8	8	8
8	8	8	8	8
14.4. Packing group				
III	III	III	III	III
14.5. Environmental	14.5. Environmental hazards			
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment: No	environment: No	environment: No	environment: No	environment: No
	Marine pollutant: No			
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C7
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T7

(ADR)

Portable tank and bulk container special : TP1, TP28

provisions (ADR)

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Hazard identification number (Kemler No.) : V12

Orange plates

80 3267

Tunnel restriction code (ADR) : E EAC code : 2X

Transport by sea

Special provisions (IMDG) : 223, 274

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP28
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW2

Segregation (IMDG) : SGG18, SG35

Properties and observations (IMDG) : Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y841 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 852 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 856 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3, A803 ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C7

Special provisions (ADN) : 274

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C7
Special provisions (RID) : 274
Limited quantities (RID) : 5L

Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions : T7

(RID)

Portable tank and bulk container special : TP1, TP28

provisions (RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Colis express (express parcels) (RID) : W12
Hazard identification number (RID) : CE8

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	

LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2

Safety Data Sheet (SDS), EU