

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 30/01/2018 Version: 2.0. For changes from version 1.0, please see section 16

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

1.1. Product identifier

Product form : Mixture

Trade name : LIQUID DESCALER XDL

Product code : XDL

UFI Number : D682-21XK-600F-J5JE

Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

Use of the substance/mixture : Washing and cleaning product.. Removes lime-scale from shower heads, kettles and boilers,

etc

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Bio-Productions 72 Victoria Road

Burgess Hill - United Kingdom

T 0044 (0) 1444 244000 - F 0044 (0) 1444 244999

 $\underline{technical@bio\text{-}productions.com} - \underline{www.bio\text{-}productions.com}$

1.4. Emergency telephone number

Emergency number : 0044 (0) 1444 244000 (office hours only)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	

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 1A H314

Full text of hazard classes and H-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

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

Precautionary statements (CLP) : P102 - Keep out of reach of children

P260 - Do not breathe fume, mist, spray, vapours

P264 - Wash hands, forearms and face thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

30/01/2018 GB - en 1/9

Safety Data Sheet

according to Regulation (EU) 2015/830

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER, a doctor

P501 - Dispose of contents/container to an approved waste disposal plant

Additional labelling information Contains; Phosphoric acid 20%

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
phosphoric acid %, orthophosphoric acid %	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6 (REACH-no) 01-2119485924-24	10 - 20	Skin Corr. 1B, H314
(2-methoxymethylethoxy)propanol [DPGME] substance with a Community workplace exposure limit	(CAS No) 34590-94-8 (EC no) 252-104-2	1 - 3	Not classified

Specific concentration limits:

Name	Product identifier	Specific concentration limits
phosphoric acid %, orthophosphoric acid %	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6 (REACH-no) 01-2119485924-24	(10 = <c 2,="" 25)="" <="" h315<br="" irrit.="" skin="">(10 =<c 2,="" 25)="" <="" eye="" h319<br="" irrit.="">(C >= 25) Skin Corr. 1B, H314</c></c>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

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

First-aid measures after skin contact Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a

physician immediately.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to First-aid measures after eye contact

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion Rinse mouth. Do not induce vomiting. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Burns.

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

Symptoms/injuries after ingestion : Burns.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : The product is not flammable. Use extinguishing agent suitable for surrounding fire. Water

spray. Dry powder. Foam. Carbon dioxide.

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

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

apparatus. Complete protective clothing.

30/01/2018 GB - en 2/9

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

vapours.

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

spray, mist, fume. 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 incompatibilitiesStorage 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

(2-methoxymethylethoxy)propanol [DPGME] (34590-94-8)		
EU	Local name	(2-Methoxymethylethoxy)-propanol
EU	IOELV TWA (mg/m³)	308 mg/m³
EU	IOELV TWA (ppm)	50 ppm
EU	Notes	Skin
United Kingdom	Local name	(2-methoxymethylethoxy) propanol
United Kingdom	WEL TWA (mg/m³)	308 mg/m³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
phosphoric acid %, ortho	phosphoric acid % (7664-38-2)	
EU	Local name	Orthophosphoric acid
EU	IOELV TWA (mg/m³)	1 mg/m³
EU	IOELV STEL (mg/m³)	2 mg/m³
United Kingdom	Local name	Orthophosphoric acid
United Kingdom	WEL TWA (mg/m³)	1 mg/m³
United Kingdom	WEL STEL (mg/m³)	2 mg/m³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

30/01/2018 GB - en 3/9

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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 : Green.
Odour : acidic.

Odour threshold : No data available

pH : 1 - 1.5

Relative evaporation rate (butyl acetate=1) : No data available Melting point : Not applicable Freezing point : < 0 °C Boiling point : > 100 °C

: No data available Flash point : No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Relative vapour density at 20 °C No data available Relative density : No data available Solubility : Soluble in water. Log Pow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available 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

----- TO BE COMPLETED ------

10.4. Conditions to avoid

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

10.5. Incompatible materials

Do not mix with other bleaching agents. Strong bases.

10.6. Hazardous decomposition products

On burning: release of carbon monoxide - carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

30/01/2018 GB - en 4/9

Safety Data Sheet

according to Regulation (EU) 2015/830

phosphoric acid %, orthophosphoric acid % (7664-38-2)		
LD50 oral	1530 mg/kg bodyweight	
LD50 dermal	2740 mg/kg bodyweight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
	pH: 1 - 1.5	
Serious eye damage/irritation	: Serious eye damage, category 1, implicit	
	pH: 1 - 1.5	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information

12.1. Toxicity

phosphoric acid %, orthophosphoric acid % (7664-38-2)		
EC50 other aquatic organisms 1	> 100 mg/l EC50 waterflea (48 h)	
EC50 other aquatic organisms 2	> 100 mg/l IC50 algea (72 h) mg/l	

12.2. Persistence and degradability

LIQUID DESCALER XDL	
Persistence and degradability	The surfactant(s) contained in this preparation 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

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. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

14.1 IIN number

SECTION 14: Transport information

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

14.1.	ON HUITIDE	
UN-No.	(ADR)	
UN-No	(IMDG)	

: 1805 : 1805 UN-No. (IATA) : 1805 UN-No. (ADN) : 1805 : 1805 UN-No. (RID)

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: PHOSPHORIC ACID, LIQUID (15-20%)
Proper Shipping Name (IMDG)	: PHOSPHORIC ACID SOLUTION (15-25%)
Proper Shipping Name (IATA)	: PHOSPHORIC ACID, SOLUTION (15-25%)
Proper Shipping Name (ADN)	: PHOSPHORIC ACID, SOLUTION (15-25%)
Proper Shipping Name (RID)	: PHOSPHORIC ACID, SOLUTION (15-25%)

30/01/2018 GB - en 5/9

Safety Data Sheet

according to Regulation (EU) 2015/830

Transport document description (ADR)	: UN 1805 PHOSPHORIC ACID, LIQUID (15-20%), 8, III, (E)
Transport document description (IMDG)	: UN 1805 PHOSPHORIC ACID SOLUTION (15-25%), 8, III
Transport document description (IATA)	: UN 1805 PHOSPHORIC ACID, SOLUTION (15-25%), 8, III
Transport document description (ADN)	: UN 1805 PHOSPHORIC ACID, SOLUTION (15-25%), 8, III
Transport document description (RID)	: UN 1805 PHOSPHORIC ACID, SOLUTION (15-25%), 8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III

30/01/2018 GB - en 6/9

Safety Data Sheet

according to Regulation (EU) 2015/830

Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C1
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 : T4

(ADR)
Portable tank and bulk container special

provisions (ADR)

: TP1

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V12

(ADR)

Hazard identification number (Kemler No.) : 80

Orange plates

80 1805

: 223

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

- Transport by sea

Special provisions (IMDG)

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P001, LP01 : IBC03 IBC packing instructions (IMDG) : T4 Tank instructions (IMDG) Tank special provisions (IMDG) : TP1 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B Stowage category (IMDG) : A

- 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 : 5L PCA max net quantity (IATA) CAO packing instructions (IATA) : 856 CAO max net quantity (IATA) : 60L : A3 Special provisions (IATA) ERG code (IATA) : 8L

- Inland waterway transport

Classification code (ADN) : C1
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP

30/01/2018 GB - en 7/9

Safety Data Sheet

according to Regulation (EU) 2015/830

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : C1
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 : T4

(RID)

Portable tank and bulk container special

provisions (RID)

: TP1 : L4BN

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages : W12

(RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 80

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

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

Changes from Previous version:

- UFI number added in section 1.1
- P-Statements added in Section 2.2

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
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H314	Causes severe skin burns and eye damage

30/01/2018 GB - en 8/9

Safety Data Sheet

according to Regulation (EU) 2015/830

Changes from version 1.0 = amended the concentration values of Phosphoric Acid to make all values uniform.

SDS EU (Reach Annex II) GREEN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

30/01/2018 GB - en 9/9