



# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Lotus Bio-Z Urinaltabs

**Product no.**

-

**REACH registration number**

Not applicable

**Other means of identification**

-

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

**Relevant identified uses of the substance or mixture**

Soap tabs with enzymes for placing in urinals. Removes bad odors and decomposes organic material.  
Perfume that capsules and fights urine smell is added to Lotus Bio-Z Urinaltabs.  
The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

PRO-REN A/S  
Springstrup 7  
DK-4300 Holbæk  
tlf: +45 70 20 34 60  
fax: +45 70 20 34 80  
www.proren.dk

**Contact person**

Janie Madsen

**E-mail**

msds@proren.dk

**SDS date**

20-11-2012

**SDS Version**

1.0

### 1.4. Emergency telephone number

Use your national or local emergency number  
See section 4 "First aid measures"

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

This product is not classified as dangerous.

### 2.2. Label elements

**Hazard pictogram(s)**

-

**Hazard statement(s)**

-

**Identity of the substances primarily responsible for the major health hazards**

<b>Safety statement(s)</b>	General	-
	Prevention	-
	Response	-
	Storage	-
	Disposal	-



According to EC-Regulation 1907/2006 (REACH)

### 2.3. Other hazards

-

#### Additional labelling

Safety data sheet available on request.

#### Additional warnings

-

#### VOC

-

## SECTION 3: Composition/information on ingredients

### 3.1/3.2. Substances

NAME:	propane-1,2-diol
IDENTIFICATION NOS.:	CAS-no: 57-55-6 EC-no: 200-338-0
CONTENT:	60-80%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	water
IDENTIFICATION NOS.:	CAS-no: 7732-18-5 EC-no: -
CONTENT:	15-25%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	polyethylene glycol
IDENTIFICATION NOS.:	CAS-no: 25322-68-3 EC-no: 500-038-2
CONTENT:	5-15%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	Fatty acids, C16-18, sodium salts
IDENTIFICATION NOS.:	CAS-no: 68424-38-4 EC-no: 270-299-2
CONTENT:	5-15%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, branched
IDENTIFICATION NOS.:	CAS-no: 69011-36-5 EC-no: 500-241-6
CONTENT:	1-5%
DSD CLASSIFICATION:	Xn;R22 Xi;R41
CLP CLASSIFICATION:	Acute Tox. 4, Eye Dam. 1 H302, H318
NAME:	Alcohols, C16-18, ethoxylated
IDENTIFICATION NOS.:	CAS-no: 68439-49-6 EC-no: 500-212-8
CONTENT:	1-5%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-
NAME:	perfume
IDENTIFICATION NOS.:	CAS-no: - EC-no: -
CONTENT:	1-5%
DSD CLASSIFICATION:	Xi;R41
CLP CLASSIFICATION:	Eye Dam. 1 H318
NAME:	perfume
IDENTIFICATION NOS.:	CAS-no: - EC-no: -
CONTENT:	1-5%
DSD CLASSIFICATION:	R52/53
CLP CLASSIFICATION:	Aquatic Chronic 3 H412
NAME:	2,2'-[[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-met...
IDENTIFICATION NOS.:	CAS-no: 5468-75-7 EC-no: 226-789-3
CONTENT:	<0.01%
DSD CLASSIFICATION:	-
CLP CLASSIFICATION:	-



According to EC-Regulation 1907/2006 (REACH)

NAME:	Lipase, triacylglycerol
IDENTIFICATION NOS.:	CAS-no: 9001-62-1 EC-no: 232-619-9
CONTENT:	<0.01%
DSD CLASSIFICATION:	Xn;R42
CLP CLASSIFICATION:	Resp. Sens. 1 H334

(\*) See full text of H/R-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.

### Other informations

Ingredients:

PROPYLENE GLYCOL (Solvent), AQUA (Solvent), PEG-20 (Stabilizer), SODIUM STEARATE (Viscosity controlling), C11-13 PARETH-8 (Surfactant), CETEARETH-50 (Surfactant), PARFUM (Fragrance), CI 21095 (Dye), MICRO ORGANISMS (-)

Detergent:

0 - 5%: non-ionic surfactants, perfumes, enzymes

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

#### Inhalation

Get the person into fresh air and stay with them.

#### Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

#### Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If irritation continues, contact a doctor.

#### Ingestion

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

#### Burns

Rinse with water until the pain stops and continue for 30 minutes.

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

No special

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

No special

#### Information to medics

Bring this safety data sheet.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.



According to EC-Regulation 1907/2006 (REACH)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

### 6.2. Environmental precautions

No specific requirements.

### 6.3. Methods and material for containment and cleaning up

Sweep up spills carefully. Use water sprays or ventilated evacuation systems to prevent dust. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

### 6.4. Reference to other sections

See section on "Disposal considerations" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

See section on 'Exposure controls/personal protection' for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original.

#### Storage temperature

Frost-free

### 7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

propane-1,2-diol (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

#### DNEL / PNEC

DNEL (propane-1,2-diol): 168 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: Long term - Systemic effects - Remarks: Workers

DNEL (propane-1,2-diol): 10 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: Long term - Local effects - Remarks: Workers

DNEL (propane-1,2-diol): 50 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: Long term - Systemic effects - Remarks: General population

DNEL (propane-1,2-diol): 10 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: Long term - Local effects - Remarks: General population

DNEL (2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-met...): 45 mg/kg - Exposure: Dermal - Duration: Long term -

Systemic effects - Remarks: Workers

DNEL (2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-met...): 3 mg/m<sup>3</sup> - Exposure: Inhalation - Duration: Long term -

Local effects - Remarks: Workers

DNEL (2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-met...): 28 mg/kg - Exposure: Dermal - Duration: Long term -

Systemic effects - Remarks: General population

DNEL (2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-met...): 28 mg/kg - Exposure: Oral - Duration: Long term - Systemic effects - Remarks: General population

PNEC (propane-1,2-diol): 260 mg/L - Exposure: Water - Duration: Single - Remarks: Freshwater

PNEC (propane-1,2-diol): 26 mg/L - Exposure: Water - Duration: Single - Remarks: Marine water

PNEC (propane-1,2-diol): 183 mg/L - Exposure: Water - Duration: Continuous

PNEC (propane-1,2-diol): 50 mg/kg - Exposure: Soil - Duration: Single

### 8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

#### General recommendations

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom.

#### Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

According to EC-Regulation 1907/2006 (REACH)

### Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

### Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

### Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

### Measures to avoid environmental exposure

No specific requirements.

### Individual protection measures, such as personal protective equipment



### Generally

Only CE-marked personal protection equipment should be used.

### Respiratory Equipment

No specific requirements.

### Skin protection

No specific requirements.

### Hand protection

Recommended: Nitrile rubber. . Breakthrough time: > 480 minutes (Class 6)

### Eye protection

No specific requirements.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm <sup>3</sup> )
Solid	Yellow	Pleasant	-	-	-

### Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-	-

### Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-	-	-

Explosion limits (Vol %)	Oxidizing properties
-	-

### Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

### 9.2. Other information

Solubility in fat	Additional information
-	N/A

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section on "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special



According to EC-Regulation 1907/2006 (REACH)

#### 10.4. Conditions to avoid

No special

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidising agents, and strong catabolic agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

Substance	Species	Test	Route of exposure	Result
Fatty acids, C16-18, sodium sa...	Rat	LD50	Oral	>5000 mg/kg
propane-1,2-diol	Rat	LD50	Oral	22000 mg/kg
propane-1,2-diol	Rabbit	LD50	Dermal	>2000 mg/kg
propane-1,2-diol	Rabbit	LC50	Inhalation	>317042 mg/m3
2,2'-[(3,3'-dichloro[1,1'-biph...	Rat	LD50	Oral	>10 g/kg
2,2'-[(3,3'-dichloro[1,1'-biph...	Rat	LD50	Dermal	>3 g/kg
2,2'-[(3,3'-dichloro[1,1'-biph...	Rat	LC50	Inhalation	>230 mg/m3
polyethylene glycol	Rabbit	LD50	Oral	14 g/kg
polyethylene glycol	Rabbit	LD50	Dermal	>20 g/kg
Alcohols, C16-18, ethoxylated	Rat	LD50	Oral	1260 mg/kg

##### Long term effects

Non known.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Substance	Species	Test	Test duration	Result
Lipase, triacylglycerol	Daphnia	EC50	48 h	307960 ug/L
Fatty acids, C16-18, sodium sa...	Fish	LC50	96 h	46 mg/L
Fatty acids, C16-18, sodium sa...	Daphnia	EC50	24 h	40 mg/L
Fatty acids, C16-18, sodium sa...	Algae	EC50	96 h	120 mg/L
propane-1,2-diol	Fish	LC50	96 h	40613 mg/L
propane-1,2-diol	Daphnia	EC50	48 h	43500 mg/L
propane-1,2-diol	Algae	EC50	72 h	19300 mg/L
2,2'-[(3,3'-dichloro[1,1'-biph...	Fish	LC50	96 h	>100 mg/L
2,2'-[(3,3'-dichloro[1,1'-biph...	Daphnia	EC50	48 h	>100 mg/L
2,2'-[(3,3'-dichloro[1,1'-biph...	Algae	EC50	72 h	>100 mg/L
polyethylene glycol	Fish	LC50	96 h	>20 g/L
Alcohols, C16-18, ethoxylated	Fish	LC50	48 h	3500 ug/L

#### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Fatty acids, C16-18, sodium sa...		No data available	No data available
propane-1,2-diol	Yes	No data available	No data available
water		No data available	No data available
2,2'-[(3,3'-dichloro[1,1'-biph...		No data available	No data available

#### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
Fatty acids, C16-18, sodium sa...	Yes	3,3	No data available
propane-1,2-diol	No	-1,07	No data available
water	No	No data available	No data available
2,2'-[(3,3'-dichloro[1,1'-biph...	No	0,5	No data available

#### 12.4. Mobility in soil

Fatty acids, C16-18, sodium sa...: Log Koc= 2,69167, Calculated from LogPow (Moderate mobility potential. ). propane-1,2-diol: Log Koc= -0,768933, Calculated from LogPow (Moderate mobility potential. ). 2,2'-[(3,3'-dichloro[1,1'-biph...: Log Koc= 0,47435, Calculated from LogPow (High mobility potential. ).

#### 12.5. Results of PBT and vPvB assessment

No data available

#### 12.6. Other adverse effects

This product contains ecotoxic substances which can have damaging effects on water-organisms. This product contains substances which can accumulate in the food chain because they are bioaccumulative substances. Bioaccumulative substances can accumulate in fat tissue and are not easily secreted.



According to EC-Regulation 1907/2006 (REACH)

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

#### Waste

EWC code

20 01 29

#### Specific labelling

-

#### Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

## SECTION 14: Transport information

Not listed as dangerous goods under ADR and IMDG regulations.

### 14.1 – 14.4

ADR/RID	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Notes		
IMDG	UN-no.	Proper Shipping Name	Class	PG*	EmS	MP**	Hazardous constituent

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

-

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

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

#### Restrictions for application

-

#### Demands for specific education

-

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Sources

EC regulation 1907/2006 (REACH)

Directive 2000/532/EC

EC Regulation 1272/2008 (CLP)

### Full text of H/R-phrases as mentioned in section 3

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

R42 - May cause sensitisation by inhalation.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H412 - Harmful to aquatic life with long lasting effects.



According to EC-Regulation 1907/2006 (REACH)

**The full text of identified uses as mentioned in section 1**

**Other symbols mentioned in section 2**

-

**Other**

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

**The safety data sheet is validated by**

JM

**Date of last essential change  
(First cipher in SDS version)**

-

**Date of last minor change  
(Last cipher in SDS version)**

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