BIO TABS® Urinal Drain Maintainer and Deodorizer

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Date of issue: 11/07/2019 Revision date: Supersedes: Version: 1.0

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1 Product identifier

Product name : BIO TABS® Urinal Drain Maintainer and Deodorizer

Product form : Mixture

Type of product : Drain Maintainer

Product code : BS160MD, BS130SD, BD160MD, BD120SD, BS110SD, BR2880 - REFILL60/55G, BR2895 - REFILL100/85G, BS2820 – BIOTABS GREEN/115G, BS2790 – BIOTABS PINK FLUSH/105G

1.2 Other means of identification

No additional information available

1.3 Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Drain Maintainer, Urinal Deodoriser

1.4 Supplier's details

Manufacturer:
Calfarme (Singapore) Pte Ltd Telephone: +65 6556 4111
AMK TechLink
20 Ang Mo Kio Industrial Park 2A 06-18
Singapore 567761
Email: sales@calfarme.com.sg Web: www.calfarme.com.sg

Distributor:
Calfarme Products Sdn Bhd Telephone: +60 3 5122 2700
45 & 47 Jalan Tabla 33/21
Shah Alam Technology Park
Seksyen 33, 40400 Shah Alam
Selangor Darul Ehsan Malaysia
Email: sales@calfarme.com.my Web: www.calfarme.com.my

Calfarme Australia Pty Ltd Telephone: +61 (2) 9153 0677
P.O Box 678, Kingsgrove NSW 1480
Unit 4/238 Berkeley Street, Unanderra NSW 2526
Tel: 1300 649088
Email: sales@calfarme.com.au Web: www.calfarme.com.au

1.5. Emergency phone number

Emergency number : +65 6556 4111 (Office Hours Monday - Friday)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

6.5B Skin sensitisation, Category 1

2.2. Label elements

GHS NZ labelling

Hazard pictograms (GHS NZ) :

GHS07

Signal word (GHS NZ) : Warning

Contains : (R)-p-mentha-1,8-diene; d-limonene (0.1 - 1 %) ; Linalool (0.1 - 1 %) ; 3,7-dimethyl-6-octen-1-ol (citronellol) (0.1 - 1 %) ; 2,6- octadien-1-ol,3,7- dimethyl-,(2E)- (0.1 - 1 %) ; HEXYL CINNAMAL (0.1 - 1 %) ; Linalyl acetate (0.1 - 1 %) ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (0.1 - 1 %) ; Hexyl salicylate (0.1 - 1 %) ; Butylphenyl Methylpropional (0.1 - 1 %) ; Coumarin (0.1 - 1 %)

Hazard statements (GHS NZ) : H317 - May cause an allergic skin reaction.

Prevention	:	P261 - Avoid breathing dust. P280 - Wear protective gloves, protective clothing.
Response	:	P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
Disposal	:	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Linalool	(CAS-No.) 78-70-6	0.1 - 1	6.5B: Skin Sens. 1, H317

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	:	If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	:	Gently wash with plenty of soap and water.
First-aid measures after eye contact	:	Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	:	Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation	:	None under normal use.
Symptoms/effects after skin contact	:	May cause an allergic skin reaction.
Symptoms/effects after eye contact	:	May cause slight irritation.
Symptoms/effects after ingestion	:	Ingestion may cause nausea and vomiting.

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

Other medical advice or treatment	:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	:	None.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	No fire hazard.
Explosion hazard	:	Product is not explosive.
General measures	:	None under normal use.
Reactivity in case of fire		Toxic fumes may be released

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	:	Use extinguishing agent suitable for surrounding fire.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	None under normal use.

6.1.1. For non-emergency personnel

Protective equipment	:	For further information refer to section 8: "Exposure controls/personal protection".

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

For containment	:	Collect spillage.

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

No additional information available

8.4. Individual protection measures, such as personal protective equipment (PPE)

No additional information available

SECTION 9: Physical and chemical properties

Physical state	:	Solid
Appearance	:	No data available
Colour	:	Blue
Odour	:	characteristic
Odour threshold	:	No data available
pH	:	7 - 8
Evaporation rate	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
	:	No data available
Boiling point	:	No data available
Flash point	:	> 100 °C
Auto-ignition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
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
Explosive limits	:	No data available
Minimum ignition energy	:	No data available

SECTION 10: Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions of use.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

2,6-DIMETHYL-7-OCTEN-2-OL (18479-58-8)	
LD50 oral	3600 mg/kg bodyweight
TERPINEOL (8000-41-7)	
LD50 oral	4300 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 4760 mg/l
Linalool (78-70-6)	
LD50 oral	2790 mg/kg bodyweight
LD50 dermal	5610 mg/kg bodyweight
2,6- octadien-1-ol,3,7- dimethyl-,(2E)- (106-24-1)	
LD50 oral	3600 mg/kg bodyweight
LD50 dermal	> 5000 mg/kg bodyweight
3,7-dimethyl-6-octen-1-ol (citronellol) (106-22-9)	
LD50 oral	3450 mg/kg bodyweight
LD50 dermal	2650 mg/kg bodyweight
4-TERT-BUTYLCYCLOHEXYL ACETATE (32210-23-4)	
LD50 oral	3370 mg/kg bodyweight
VERDYL ACETATE (5413-60-5)	
LD50 oral	3050 mg/kg bodyweight
HEXYL CINNAMAL (101-86-0)	
LD50 oral	> 2450 mg/kg bodyweight
LD50 dermal	> 3000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5000 mg/l
Nerol (106-25-2)	
LD50 oral	4500 mg/kg bodyweight
LD50 dermal	> 5000 mg/kg bodyweight
citral (5392-40-5)	
LD50 oral	4960 mg/kg bodyweight
LD50 dermal	2250 mg/kg bodyweight
EUCALYPTOL (470-82-6)	
LD50 oral	2480 mg/kg bodyweight
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE (68039-49-6)	
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
ALLYL HEPTANOATE (142-19-8)	
LD50 oral	218 mg/kg bodyweight
LD50 dermal	810 mg/kg bodyweight
ALLYL CAPROATE (123-68-2)	
LD50 oral	300 mg/kg bodyweight
LD50 dermal	300 mg/kg bodyweight
LC50 inhalation rat (Vapours - mg/l/4h)	3 mg/l/4h
METHOXYHYDRATROPALDEHYDE (5462-06-6)	
LD50 oral	4000 mg/kg bodyweight
BENZYL SALICYLATE (118-58-1)	
LD50 oral	2200 mg/kg bodyweight
Butylphenyl Methylpropional (80-54-6)	
LD50 oral rat	1390 mg/kg
LD50 oral	1390 mg/kg bodyweight
LD50 dermal	> 5000 mg/kg bodyweight
Coumarin (91-64-5)	
LD50 oral rat	239 mg/kg
LD50 oral	500 mg/kg bodyweight
(E)-3-Methyl-5-phenylpent-2-enenitrile (53243-60-0)	
LD50 oral	500 mg/kg bodyweight
CYCLAMEN ALDEHYDE (103-95-7)	
LD50 oral	3810 mg/kg bodyweight
ALPHA PINENE NATURAL (80-56-8)	
LD50 oral	500 mg/kg bodyweight

ALPHA PINENE NATURAL (80-56-8)	
LD50 dermal	> 5000 mg/kg bodyweight

ACETYL HEXAMETHYL TETRALIN (1506-02-1)	
LD50 oral	1000 mg/kg bodyweight

2-Methyl-3- (3,4- methylenedioxyphenyl) -propanal (1205-17-0)	
LD50 oral	3562 mg/kg bodyweight

(Z)-3-Methyl-5-phenylpent-2-enenitrile (53243-59-7)	
LD50 oral	500 mg/kg bodyweight

WATER (7732-18-5)	
LD50 oral	> 90000 mg/kg bodyweight
LD50 dermal	> 90000 mg/kg bodyweight

Sodium Sulfate (7757-82-6)	
LD50 oral	> 2000 mg/kg bodyweight

Skin corrosion/irritation : Not classified
pH: 7 - 8

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

BIO TABS® Urinal Drain Maintainer and Deodorizer	
Viscosity, kinematic	

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

Soil toxicity : Not classified

Terrestrial vertebrate toxicity : Not classified

Terrestrial invertebrate toxicity : Not classified

Linalool (78-70-6)	
LC50 fish 1	27.8 mg/l
EC50 other aquatic organisms 1	20 mg/l waterflea
EC50 other aquatic organisms 2	88.3 mg/l
Log Pow	2.84

12.2. Persistence and degradability

BIO TABS® Urinal Drain Maintainer and Deodorizer	
Persistence and degradability	Biodegradable.

12.3. Bioaccumulative potential

BIO TABS® Urinal Drain Maintainer and Deodorizer	
Bioaccumulative potential	No additional information available

Linalool (78-70-6)	
Log Pow	See section 12.1 on ecotoxicology

12.4. Mobility in soil

BIO TABS® Urinal Drain Maintainer and Deodorizer	
Mobility in soil	No additional information available

Linalool (78-70-6)	
Log Pow	See section 12.1 on ecotoxicology

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

Ecology - waste materials : Readily biodegradable.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. Proper Shipping Name

Proper Shipping Name (UN RTDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

UN RTDG

Transport hazard class(es) (UN RTDG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (UN RTDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : False
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

UN RTDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

Linalool (78-70-6)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003500

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Date of issue : 11/07/2019

Full text of H-statements:

6.5B: Skin Sens. 1	6.5B: Skin sensitisation, Category 1
H317	May cause an allergic skin reaction.

SDS New Zealand

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.