



# BIO PLUS Waterless Urinal Cleaner

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 07/08/2013

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Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : BIO PLUS Waterless Urinal Cleaner  
Product code : BP 2580, BP 2890  
Product group : Blend

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Consumer use, Industrial use, Professional use  
Function or use category : Cleaning/washing agents and additives  
Use of the substance/mixture : Toilet Deodorizer, Drain Maintainer

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer:

Calfarme (Singapore) Pte Ltd Telephone: +65 6556 4111  
AMK Techlink  
20 Ang Mo Kio Industrial Park 2A 06-18  
Singapore 567761  
Republic of Singapore  
Email: [sales@calfarme.com.sg](mailto:sales@calfarme.com.sg) Web: [www.calfarme.com.sg](http://www.calfarme.com.sg)

Calfarme Products Sdn Bhd Telephone: +60 3 5122 2700  
45 & 47 Jalam Tabla 33/21  
Shah Alam Technology Park  
Seksyen 33 40400 Shah Alam  
Selangor Darul Ehsan Malaysia  
Email: [sales@calfarme.com.my](mailto:sales@calfarme.com.my) Web: [www.calfarme.com.my](http://www.calfarme.com.my)

##### Supplier:

Calfarme Australia Pty Ltd Telephone: +61 (2) 9153 0677  
P.O Box 678, Kingsgrove NSW 1480  
Unit 4, 10 Doyle Avenue Unanderra NSW 2526. Australia  
Tel: 1300 649088  
Email: [sales@calfarme.com.au](mailto:sales@calfarme.com.au) Web: [www.calfarme.com.au](http://www.calfarme.com.au)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0870 600 6266 (UK only)
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
AUSTRALIA	Queensland Poisons Information Centre Royal Children's Hospital	Herston Road Herston Brisbane	+61 7 363 68 148 131126
AUSTRALIA	NSW Poisons Information Centre Childrens Hospital Westmead	Hawkesbury Road Sydney	+61 2 9845 3969 131126
MALAYSIA	National Poisons Centre / WHO Collaborating Centre for drug Information Western-Pacific Region	c/o Universiti Sains Malaysia Penang	1 800 88 90 99 +604 567 0099



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Country	Organisation/Company	Address	Emergency number
SINGAPORE	Drug & poison information centre	Block 1 Basement 1, c/o Department of Emergency Medicine, Singapore General Hospital Outram Road 169608 Singapore	6423 9119

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Resp. Sens. 1 H334

Full text of H-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) :

Danger

Hazardous ingredients :

subtilisin

Hazard statements (CLP) :

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements (CLP) :

P102 - Keep out of reach of children  
P284 - Wear respiratory protection  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P261 - Avoid breathing fume, vapours  
P264 - Wash hands thoroughly after handling  
p280 - Wear eye protection, face protection, protective clothing, protective gloves  
P501 - Dispose of contents/container to a licensed waste centre in accordance with local/regional/national/international regulations

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
sodium C10-16 pareth-2 sulfate	(CAS No) 68585-34-2	2,5 - 10	Xi; R36/38
Proprietary Bacteria Spore Blend	(CAS No) N/A	2,5 - 5	Not classified
propan-2-ol, isopropyl alcohol, isopropanol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	< 2,5	F; R11 Xi; R36 R67
ethanol, ethyl alcohol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	0 - 2,5	F; R11
subtilisin	(CAS No) 9014-01-1 (EC no) 232-752-2 (EC index no) 647-012-00-8	0 - 2,5	Xi; R41 Xi; R37/38 R42



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium C10-16 parath-2 sulfate	(CAS No) 68585-34-2	2,5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Proprietary Bacteria Spore Blend	(CAS No) N/A	2,5 - 5	Not classified
propan-2-ol, isopropyl alcohol, isopropanol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	< 2,5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
ethanol, ethyl alcohol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	0 - 2,5	Flam. Liq. 2, H225
subtilisin	(CAS No) 9014-01-1 (EC no) 232-752-2 (EC index no) 647-012-00-8	0 - 2,5	STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334

Full text of R- and H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. If skin irritation occurs:
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- 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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing fume, Vapours.

Hygiene measures : Wash Skin thoroughly after handling.

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

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat and ignition sources.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

subtilisin (9014-01-1)		
Italy - Portugal - USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	0,00006 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0,00004 mg/m <sup>3</sup>

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.

Personal protective equipment : Protective clothing. Protective goggles. Gloves.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
 Colour : Blue.  
 Odour : perfumed.  
 Odour threshold : No data available  
 pH : No data available  
 Relative evaporation rate (butylacetate=1) : No data available  
 Melting point : No data available  
 Freezing point : No data available  
 Boiling point : No data available  
 Flash point : > 70 °C  
 Self ignition temperature : No data available  
 Decomposition temperature : No data available



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Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: 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

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

LD50 oral rat	5050 mg/kg <i>Gigiena i Sanitariya</i> . For English translation, see HYSAAV. Vol. 43(1), Pg. 8, 1978.
LD50 dermal rabbit	12800 mg/kg <i>Raw Material Data Handbook</i> , Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 100, 1974.

#### sodium C10-16 pareth-2 sulfate (68585-34-2)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

#### ethanol, ethyl alcohol (64-17-5)

LD50 oral rat	7060 mg/kg <i>Toxicology and Applied Pharmacology</i> . Vol. 16, Pg. 718, 1970.
ATE (oral)	7060,000 mg/kg bodyweight

#### subtilisin (9014-01-1)

LD50 oral rat	3700 mg/kg (Rat)
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met



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Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)</b>	
LC50 fishes 1	96h 9640 (4200 - 11100) mg/l Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows ( <i>Pimephales promelas</i> ), Vol. 1. Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI :414
LC50 other aquatic organisms 1	48h 1400 mg/l Crustaceans; Blackman, R.A.A. 1974. Toxicity of Oil-Sinking Agents. Mar.Pollut.Bull. 5:116-118
<b>sodium C10-16 parath-2 sulfate (68585-34-2)</b>	
EC50 Daphnia 1	48h 1 (1 - 10) mg/l
EC50 other aquatic organisms 1	72h 1 (1 - 10) mg/l Algae
<b>ethanol, ethyl alcohol (64-17-5)</b>	
LC50 fishes 1	96h 11000 (42 - 14200) mg/l Bengtsson, B.E., L. Renberg, and M. Tarkpea 1984. Molecular Structure and Aquatic Toxicity - an Example with C1-C13 Aliphatic Alcohols. Chemosphere 13(5/6):613-622
LC50 other aquatic organisms 1	48h 9280 (3720 - 20700) mg/l Crustaceans; Takahashi, I.T., U.M. Cowgill, and P.G. Murphy 1987. Comparison of Ethanol Toxicity to <i>Daphnia magna</i> and <i>Ceriodaphnia dubia</i> Tested at Two Different Temperatures: Static Acute Toxicity Test Results. Bull.Environ.Contam.Toxicol. 39(2):229-236; Ziegenfuss, P.S., W.J. Renaudette, and W.J. Adams 1986. Methodology for Assessing the Acute Toxicity of Chemicals Sorbed to Sediments: Testing the Equilibrium Partitioning Theory. In: T.M.Poston and R.Purdy (Eds.), Aquatic Toxicology and Environmental Fate, 9th Volume, ASTM STP 921, Philadelphia, PA :479-493
EC50 other aquatic organisms 1	48h 9950 (2 - 17500) mg/l Crustaceans; Barera, Y., and W.J. Adams 1983. Resolving Some Practical Questions About <i>Daphnia</i> Acute Toxicity Tests. In: W.E.Bishop (Ed.), Aquatic Toxicology and Hazard Assessment, 6th Symposium, ASTM STP 802, Philadelphia, PA :509-518; Rossini, G.D.B., and A.E. Ronco 1996. Acute Toxicity Bioassay Using <i>Daphnia obtusa</i> as a Test Organism. Environ.Toxicol.Water Qual. 11(3):255-258
<b>subtilisin (9014-01-1)</b>	
LC50 fishes 1	> 100 mg/l (Pisces)

#### 12.2. Persistence and degradability

<b>BIO PLUS Waterless Urinal Cleaner</b>	
Persistence and degradability	Not established.
<b>subtilisin (9014-01-1)</b>	
Persistence and degradability	Biodegradability in water: no data available.

#### 12.3. Bioaccumulative potential

<b>BIO PLUS Waterless Urinal Cleaner</b>	
Bioaccumulative potential	Not established.
<b>propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)</b>	
Log Kow	0,05



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### ethanol, ethyl alcohol (64-17-5)

Log Kow : -0,3

### subtilisin (9014-01-1)

Bioaccumulative potential : Bioaccumulation: No data 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

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed waste centre in accordance with local/regional/national/international regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

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

### 14.1. UN number

Not dangerous goods in terms of transport regulations

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

### 14.7. 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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

#### 15.1.2. National regulations

Water hazard class (WGK) : 1 - slightly hazardous to water

WGK remark : Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)



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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases::

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
R11	Highly flammable
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R37/38	Irritating to respiratory system and skin
R41	Risk of serious damage to eyes
R42	May cause sensitization by inhalation
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
Xi	Irritant

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*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*