

Material Safety Data Sheet

[NOHSC:2011(2003)]

Printing date: 01.08.2010

Revision: 01.08.2010

1. Identification of material and supplier

Product details:

Trade name: BIOPLUS - WATERLESS URINAL CLEANER

Recommended use: Cleaning agent / Cleaner

Manufacturer:

Calfarme (Singapore) Pte Ltd
AMK Techlink
20 Ang Mo Kio Industrial Park 2A 06-18
Singapore 567761
Republic of Singapore

Telephone: +65 6556 4111

Supplier:

Calfarme Australia Pty Ltd
Unit 42
55 Norman Street
Peakhurst NSW2210
Australia

Telephone: +61 (2) 9153 0677

E-mail address of the competent person responsible for the Safety Data Sheet: sales@calfarme.com.au

Emergency information:

Emergency Number: +61 (2) 9153 0677 (Monday – Friday 9am - 5pm Australian EST)

As above or a Poisons Information Centre (Australia 13 1126; New Zealand 0800 764 766)

2. Hazards identification

Hazards Identification

HAZARDOUS SUBSTANCE.
NON DANGEROUS GOODS.



Xn Harmful

Risk Phrases

42 May cause sensitisation by inhalation.

Safety Phrases

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

36 Wear suitable protective clothing.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Classification system

Hazard classification according to the criteria of NOHSC [NOHSC:1008(2004)].

Dangerous goods classification according to the Australia Dangerous Goods Code.

Material Safety Data Sheet

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3. Composition/information on ingredients

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

Components:			
CAS: 64-17-5	Ethanol	F; R 11	2.5 – 10 %
CAS: 68585-34-2	(C10-C16) Alcohol ethoxylate, sulfated, sodium salt	Xi; R 36/38	< 2.5 %
CAS: 9014-01-1	Subtilisin	Xn, Xi; R 37/38-41-42	< 2.5 %
CAS: 67-63-0	Propan-2-ol	Xi, F; R 11-36-67	< 2.5 %

Additional information For the wording of the listed risk phrases refer to section 16.

4. First aid measures

General information:

Remove contaminated clothing.

After inhalation:

Take affected persons out of danger area and into the open air.

Seek medical treatment.

After skin contact:

Wash with soap and water.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing:

Do not induce vomiting!

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

5. Fire fighting measures

Suitable extinguishing agents

Carbon dioxide (CO₂), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

Special hazards caused by the material, its products of combustion or flue gases:

Can be released in case of fire:

Carbon monoxide (CO) and Carbon dioxide (CO₂)

Can form explosive vapour-air mixtures.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

Protective equipment: Wear self-contained breathing apparatus.

Additional information

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Hazchem Code

Not regulated.

Material Safety Data Sheet

[NOHSC:2011(2003)]

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6. Accidental release measures

Person-related safety precautions:

Wear protective clothing and keep away unprotected persons.
Ensure adequate ventilation.
Avoid skin and eye contact.
Do not breathe vapours.
Use breathing protection against the effects of fumes/dust/aerosol.
Remove all ignition sources.

Measures for environmental protection:

Do not allow to enter drainage system, surface or ground water.
Prevent material from reaching sewage system, holes and cellars.

Measures for cleaning/collecting:

Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to regulations.
Do not flush with water or aqueous cleansing agents.

7. Handling and storage

Handling

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Avoid skin and eye contact.
Keep away from heat and direct sunlight.
Open and handle container with care.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Storage

Requirements to be met by storerooms and containers:

Store in cool location.
Observe all local and national regulations for storage of water polluting products.

Information about storage in one common storage facility:

Store away from foodstuffs.
Store away from oxidizers.

Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.
Store container in a well ventilated position.
Protect from heat and direct sunlight.

8. Exposure controls / personal protection

National Exposure Standards

No exposure standard has been established for this product by the Australian National Occupational Health and Safety Commission (NOHSC).

Components with critical values that require monitoring at the workplace:

Components with critical values that require monitoring at the workplace:

CAS : 64-17-5 Ethanol :	1000 ppm (TWA); 1880 mg/m ³ (TWA)
CAS : 67-63-0 Propan-2-ol :	400 ppm (TWA); 983 mg/m ³ (TWA) 500 ppm (STEL); 1230 mg/m ³ (STEL)

Material Safety Data Sheet

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Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Do not eat, drink or smoke while working.

Instantly remove any contaminated garments.

Do not carry cleaning cloths impregnated with the product in trouser pockets.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Wash hands during breaks and at the end of the work.

Use skin protection cream for preventive skin protection.

Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands:

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

Protective gloves should be replaced at first signs of wear.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Body protection:

Protective work clothing

Protective clothing should be selected specifically for the working place.

9. Physical and chemical properties

Form: liquid

Colour: light blue

Smell: faint

Change in condition

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

Flash point: not applicable

Self-inflammability: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures is possible

Density: not determined

Solubility in / Miscibility with

Water: soluble

Material Safety Data Sheet

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10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

Avoid impact, friction, heat, sparks, electrostatic charges.

Materials to be avoided: Strong oxidizing agents

Dangerous reactions : Forms explosive gases / fumes

Dangerous products of decomposition:

Carbon monoxide (CO) and Carbon dioxide (CO₂)

11. Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

CAS : 64-17-5 Ethanol	Oral LD50	5,560 mg/kg (guinea pig)
		3,450 mg/kg (mouse)
		7,060 mg/kg (rat)
	Dermal LD50	6,300 mg/kg (rabbit)
		> 2,000 mg/kg (rat)
Inhalative LC50/4 h		20,000 mg/l (rat)

Primary irritant effect:

on the skin: Long or repeated contact can defat skin and may cause dermatitis.

on the eye: Short time, reversible irritating effect.

Other information (about experimental toxicology): no data available

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Sensitising

The toxicological properties of this substance have not been completely investigated.

Sensitisation May cause sensitisation by inhalation.

12. Ecological information

Information about elimination (persistence and degradability):

Degree of elimination: no data available

Behaviour in environmental systems:

Mobility and bioaccumulation potential: no data available

Ecotoxicological effects:

Aquatic toxicity:

CAS 64-17-5 Ethanol	EC50/16 h	6,500 mg/l (pseudomonas putida)
	EC50/48 h	≥ 9,268 mg/l (water flea (daphnia magna))
	LC50/24 h	> 100 mg/l (water flea (daphnia magna))
	LC50/48 h	8,140 mg/l (leuciscus idus)

13. Disposal considerations

Product:

Recommendation Disposal must be made according to official regulations.

European waste catalogue:

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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14. Transport information

Land transport ADG:

ADG Class: --

Maritime transport IMDG-Code:

IMDG Class: --

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: --

Transport/Additional information: Not dangerous according to the above specifications.

15. Regulatory information

Poisons Schedule

Not a scheduled poison (Standard for the Uniform Scheduling of Drugs and Poisons No. 23)

16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases:

The(se) R-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.

11 Highly flammable.

36 Irritating to eyes.

36/38 Irritating to eyes and skin.

37/38 Irritating to respiratory system and skin.

41 Risk of serious damage to eyes.

42 May cause sensitisation by inhalation.

67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS:

Calfarme (Australia) Pty Ltd

Unit 42,55 Norman Street

Peakhurst, NSW, 2210

Australia

Phone: +61 (2) 9153 0677

eMail: msds@calfarme.com.au

Sources: These data are based on information submitted by pre-suppliers.

Abbreviations and acronyms:

ADG: Australian Dangerous Goods Code

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent