

Material Safety Data Sheet

[NOHSC:2011(2003)]

Printing date: 27.07.2010

Revision: 27.07.2010

1. Identification of material and supplier

Product details:

Trade name: BIOCLEAN - CONCENTRATED TOILET MAINTAINER

Recommended use: Cleaning agent/Deodorizer

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

41 Risk of serious damage to eyes.
42/43 May cause sensitisation by inhalation and skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

23 Do not breathe fumes/aerosol.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Classification system

Hazard classification according to the criteria of NOHSC [NOHSC:1008(2004)].
Dangerous goods classification according to the Australia Dangerous Goods Code.

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3. Composition/information on ingredients

Chemical characterization

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

Components:			
CAS : 68515-73-1	D-Glucopyranose, oligomeric, dectyl octyl glycoside	Xi; R 41	10 – 25 %
CAS: 9014-01-1	Subtilisin	Xn, Xi; R 37/38-41-42	2.5 – 10 %
CAS: 64-17-5	Ethanol	F; R 11	2.5 – 10 %
CAS: 5392-40-5	Citral	Xi, R 38-43	< 2.5 %
CAS: 5989-27-5	Limonene	Xi, N; R 10-38-43-50/53	< 2.5 %

4. First aid measures

General information:

Remove contaminated clothing.

Take affected persons into the open air.

After inhalation:

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact:

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing:

Do not induce vomiting!

Rinse out mouth and then drink plenty of water.

If swallowed, seek medical advice immediately and show this container or label.

5. Fire fighting measures

Suitable extinguishing agents

Carbon dioxide (CO₂), extinguishing powder or 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)

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.

If without risk possible, move drums with material away from dangerous area.

Hazchem Code

Not regulated.

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6. Accidental release measures

Person-related safety precautions:

Ensure adequate ventilation.
Wear protective clothing and keep away unprotected persons.
Avoid causing dust.
Avoid breathing dust.
Avoid skin and eye contact.
Remove all ignition sources.

Measures for environmental protection:

Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.

Measures for cleaning/collecting:

Ensure adequate ventilation.
Collect mechanically.
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to regulations.

7. Handling and storage

Handling

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
Any deposit of dust which cannot be avoided must be removed regularly.
Avoid skin and eye contact under any circumstances.
Do not breathe dust.
Make sure that all applicable workplace limits are observed.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect from heat and direct sunlight.
Fine dust particles can form explosive/ignitable mixture with air.

Storage

Requirements to be met by storerooms and containers:

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.
Caution when reopening containers with broken seal.

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/m³ (TWA)

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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.

Avoid contact with the eyes and skin.

Do not breathe dust.

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

Use skin protection cream for preventive skin protection.

Breathing equipment:

Use breathing protection in case of dust formation.

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

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: Tightly sealed safety glasses

Body protection:

Protective work clothing

Use protective suit.

Protective clothing should be selected specifically for the working place.

9. Physical and chemical properties

Form: liquid

Colour: green

Smell: perfumed

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.

Density: not determined

Solubility in / Miscibility with

Water: soluble

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10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

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

Materials to be avoided: Strong oxidizing agents

Dangerous reactions: No dangerous reactions known.

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 : 9014-01-1 Subtilisin Oral LD50 : 2,000 mg/kg (rat)

CAS 5989-27-5 D-Limonene Oral LD50 : > 4,800 mg/kg (rat)

Dermal LD50 : > 2,000 mg/kg (rabbit)

Primary irritant effect:

on the skin: Mild irritant

on the eye: Strong irritant with the danger of severe eye injury.

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:

Irritant

Sensitising

Sensitisation: May cause sensitisation by inhalation and skin contact.

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 5989-27-5 D-Limonene EC50/48 h : 0.48 mg/l (water flea (daphnia magna))

LC50/96 h : 0.70 mg/l (Fathead minnow (Pimephales promelas))

Remark: Harmful to fish

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.

Recommended cleaning agent: Water, if necessary with cleaning agent.

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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.

10 Flammable.

11 Highly flammable.

37/38 Irritating to respiratory system and skin.

38 Irritating to skin.

41 Risk of serious damage to eyes.

42 May cause sensitisation by inhalation.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing MSDS:

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