

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: **BIOFLUSH WC TOILET BOWL DEODORISER**

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

- 41 Risk of serious damage to eyes.
- 42 May cause sensitisation by inhalation.

Safety Phrases

- 23 Do not breathe fumes/aerosol.
- 25 Avoid contact with eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 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.

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3. Composition/information on ingredients

Chemical characterization

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

Components:			
CAS: 25155-30-0	Sodium dodecylbenzenesulphonate	Xn, Xi; R 22-41	10 – 25 %
CAS: 9014-01-1	Subtilisin	Xn, Xi; R 37/38-41-42	2.5 – 10 %
CAS: 5392-40-5	3,7-Dimethyl-2,6-octadienal	Xi; R 38-43	< 1 %
CAS: 5989-27-5	D-Limonene	Xi, N; R 10-38-43-50/53	< 1 %

4. First aid measures

General information: Remove contaminated clothing.

After inhalation: Supply fresh air; consult doctor in case of symptoms.

After skin contact:

Rinse with plenty of water.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

Use eye protection.

Call a doctor immediately.

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:

Sulphur oxides (SO_x); 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.

Hazchem Code

Not regulated.

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.

Measures for environmental protection:

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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.

7. Handling and storage

Handling

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.
Eye contact avoided
Avoid prolonged or repeated skin contact.
Prevent formation of aerosols.
Do not inhale vapours/aerosols.
Open and handle container with care.

Information about protection against explosions and fires: No special measures required.

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:

Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Store container in a well ventilated position.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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.
Do not inhale gases / fumes / aerosols.
Avoid close or long term contact with the skin.
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.

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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: solid

Colour: green, pink, blue

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: 1.0 g/cm³

Solubility in / Miscibility with

Water: miscible

pH-value at 20°C: 6.5

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Materials to be avoided: Strong oxidizing agents

Dangerous reactions No dangerous reactions known.

Dangerous products of decomposition:

Sulphur oxides (SO_x); 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 2000 mg/kg (rat)

CAS 7757-82-6 Sodium sulphate: Oral LD50 5989 mg/kg (mouse)

CAS 25155-30-0 Sodium dodecylbenzenesulphonate : Oral LD50 400 - 2000 mg/kg (rat)

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Primary irritant effect:

on the skin: Longer lasting and/or repeated skin contact may cause irritation.

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.

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

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.

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-phrases are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.

10 Flammable.

22 Harmful if swallowed.

37/38 Irritating to respiratory system and skin.

38 Irritating to skin.

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- 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:

Calfarne (Australia) Pty Ltd
Unit 42,55 Norman Street
Peakhurst, NSW, 2210
Australia

Phone: +61 (2) 9153 0677
eMail: msds@calfarne.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