

# 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 200 – Atomiser Liquid Deodorizer

**Recommended use:** 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

10 Flammable.

36 Irritating to eyes.

42 May cause sensitisation by inhalation.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety Phrases

7 Keep container tightly closed.

16 Keep away from sources of ignition - No smoking.

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

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).

60 This material and its container must be disposed of as hazardous waste.

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.

<b>Components:</b>			
CAS : 9001-92-7	Proteinase	Xn, Xi; R 36/37/38-42	2.5 – 10 %
CAS : 68515-73-1	D-Glucopyranose, oligomeric, dectyl octyl glycoside	Xi; R 41	2.5 – 10 %
CAS: 64-17-5	Ethanol	F; R 11	2.5 – 10 %
CAS: 91-64-5	Coumarin	Xn, Xi; R 22-43	< 2.5 %
CAS: 28219-61-6	2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Xi, N; R 38-50/53	< 2.5 %
CAS: 106-22-9	Citronellol	Xi, N; R 38-43-51/53	< 2.5 %
CAS: 78-70-6	3,7-dimethyl-1,6-octadien-3-ol	Xi; R 36/38-43	< 2.5 %
CAS: 106-24-1	Geraniol	Xi; R 36/38-43	< 2.5 %
CAS: 32388-55-9	[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	N; R 50/53	< 2.5 %
CAS: 106-25-2	Nerol	Xi; R 38-43	< 2.5 %
CAS: 1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylinden[5,6-c]pyran	N; R 50/53	< 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:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

### 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. Then 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.

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## 5. Fire fighting measures

### Suitable extinguishing agents

Carbon dioxide (CO<sub>2</sub>), 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 (CO<sub>2</sub>)

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.

## 6. Accidental release measures

### Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing and keep away unprotected persons.

Ensure adequate ventilation.

Avoid skin and eye contact.

Use breathing protection against the effects of fumes/dust/aerosol.

Do not breathe vapours.

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.

Dilute with much 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.

Prevent formation of aerosols.

Avoid skin and eye contact.

Do not inhale vapours/aerosols.

Open and handle container with care.

Make sure that all applicable workplace limits are observed.

#### Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray on flames or red-hot objects.

Protect from heat and direct sunlight.

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## Storage

### Requirements to be met by storerooms and containers:

Observe regulations for storage of flammable liquids.

Observe all local and national regulations for storage of water polluting products.

### Information about storage in one common storage facility:

Observe regulations for storage of flammable liquids.

Store away from foodstuffs.

### Further information about storage conditions:

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:

### Components with critical values that require monitoring at the workplace:

CAS : 64-17-5 Ethanol : 1000 ppm (TWA); 1880 mg/m<sup>3</sup> (TWA)

### Personal protective equipment

#### General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any contaminated garments.

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

Use skin protection cream for preventive skin protection.

Do not inhale gases / fumes / aerosols.

Do not eat, drink or smoke while working.

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

#### Breathing equipment:

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

Protective clothing should be selected specifically for the working place.

# Material Safety Data Sheet

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## 9. Physical and chemical properties

**Form:** liquid  
**Colour:** pale yellow  
**Smell:** perfumed

### Change in condition

**Melting point/Melting range:** not determined  
**Boiling point/Boiling range:** not determined

**Flash point:** > 50°C

**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:** fully miscible

## 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 (CO<sub>2</sub>)

## 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:** No irritant effect.

**on the eye:** Irritant effect

**Sensitization:** Sensitization possible by skin contact.

### 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

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## 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)

**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.

## 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)

### Decree to be applied in case of technical fault:

Quantity limits according to "EC Seveso directive" should be observed.

## 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.

11 Highly flammable.

22 Harmful if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

36/38 Irritating to eyes 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.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**Department issuing MSDS:**

addChem Pty Ltd  
3895 South Gippsland Hwy  
Foster, VIC, 3960  
Australia

Phone: +61 (433) 60 14 33  
eMail: [info@add-chem.com](mailto:info@add-chem.com)

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