

# MATERIAL SAFETY DATA SHEET

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**Product:**  
**TrichoTerminator**

**Curious Ape Mushrooms**

Building A, 83 Tryon Road  
EAST LINDFIELD, 2070

+61 402 704 604  
[www.curiousapemushrooms.com](http://www.curiousapemushrooms.com)

# Material Safety Data Sheet

Version 1.1

Revision date 04/06/23

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

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### 1.1 Product Identifiers

Product Name : Chlorhexidine  
 Product Number : 282227  
 Brand : Curious Ape Mushrooms  
 CAS-No. : 55-56-1

### 1.2 Other means of identification

1,1'-Hexamethylenebis[5-(4-chlorophenyl)biguanide]

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

Identified uses : For R&D use only. Not for pharmaceutical, household or other uses

### 1.4 Details of the supplier of the safety data sheet

**Business** : Curious Ape Mushrooms,  
 Building A  
 83 Tryon Road,  
 EAST LINDFIELD NSW 2070  
 AUSTRALIA  
**Telephone** : +61 402 704 604

### 1.5 Emergency Telephone

Telephone : 13 11 26 (Poisons Information Centre)

## SECTION 2: Hazards identification

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### 2.1 GHS Classification

Serious eye damage/eye irritation (Category 1), H318  
 Short-term (acute) aquatic hazard (Category 1), H400  
 Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H318

Causes serious eye damage.

H410

Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s)****Prevention**

P273

Avoid release to the environment.

P280

Wear eye protection/ face protection.

**Response**

P305 + P351 + P338 +

P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P391

Collect spillage.

**Disposal**

P501

Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards**

Photosensitizer.

**SECTION 3: Composition/information on ingredients**

Substance / Mixture : Substance

**3.1 Substances**

Synonyms : 1,1'-Hexamethylenebis[5-(4-chlorophenyl)biguanide]

Formula : C<sub>22</sub>H<sub>30</sub>Cl<sub>2</sub>N<sub>10</sub>

Molecular weight : 505.45 g/mol

CAS-No. : 55-56-1

EC-No. : 200-238-7

**Hazardous ingredients**

Component	Classification	Concentration
<b>Chlorhexidine</b>	1; Aquatic Acute 1; Aquatic Chronic 1; H318, H400, H410 M-Factor - Aquatic Acute: 10 - Aquatic Chronic: 1	3%

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures****4.1 Description of first-aid measures****General advice**

Show this material safety data sheet to the doctor in attendance.

**If inhaled**

After inhalation: fresh air.

**In case of skin contact**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**In case of eye contact**

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

**If swallowed**

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

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**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen chloride gas

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

**5.4 Further information**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**6.4 Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Tightly closed. Dry.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.3 no other specific uses are stipulated.

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****Appropriate engineering controls**

Change contaminated clothing. Wash hands after working with substance.

**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

**Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Full contact**

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Splash contact**

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

**Body Protection**

protective clothing

**Respiratory protection**

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

#### **Control of environmental exposure**

Do not let product enter drains.

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### **SECTION 9: Physical and chemical properties**

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

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|---|--|
| a) Appearance                                   | Form: solid<br>Color: white  |
| b) Odor   | No data available  |
| c) Odor Threshold                               | No data available  |
| d) pH   | No data available  |
| e) Melting point/freezing point                 | Melting point/range: 134 - 136 °C - lit.   |
| f) Initial boiling point and boiling range      | No data available  |
| g) Flash point                                  | No data available  |
| h) Evaporation rate                             | No data available  |
| i) Flammability (solid, gas)                    | No data available  |
| j) Upper/lower flammability or explosive limits | No data available  |
| k) Vapor pressure                               | No data available  |
| l) Vapor density                                | No data available  |
| m) Relative density                             | No data available  |
| n) Water solubility                             | 0.8 g/l at 20 °C   |
| o) Partition coefficient: n-octanol/water       | log Pow: 0.08 - (Lit.), Bioaccumulation is not expected.                         |
| p) Autoignition temperature                     | No data available  |
| q) Decomposition temperature                    | No data available  |
| r) Viscosity                                    | Viscosity, kinematic: No data available<br>Viscosity, dynamic: No data available |
| s) Explosive properties                         | No data available  |
| t) Oxidizing properties                         | No data available  |

#### **9.2 Other safety information**

No data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

**10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

**10.3 Possibility of hazardous reactions**

Violent reactions possible with:  
Strong oxidizing agents

**10.4 Conditions to avoid**

no information available

**10.5 Incompatible materials**

no information available

**10.6 Hazardous decomposition products**

In the event of fire: see section 5

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

LD50 Oral - Rat - male and female - > 5,000 mg/kg  
(OECD Test Guideline 401)

Symptoms: Possible damages: , mucosal irritations

LD50 Dermal - Rabbit - male and female - > 2,815 mg/kg  
(US-EPA)

**Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation - 4 h  
(OECD Test Guideline 404)

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Irreversible effects on the eye  
(OECD Test Guideline 405)

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Result: negative

Remarks: (Lit.)

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

No data available

**Specific target organ toxicity - single exposure****Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information**

RTECS: DU1925000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

No description of any further symptoms is available.

Further data:

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish	semi-static test LC50 - Danio rerio (zebra fish) - 1.4 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 0.049 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products)
Toxicity to algae	static test EC10 - Desmodesmus subspicatus (green algae) - 0.017 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products)
	static test ErC50 - Desmodesmus subspicatus (green algae) - 0.046 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products)

**12.2 Persistence and degradability**

Biodegradability	aerobic - Exposure time 28 d Result: 0 % - Not readily biodegradable.
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(OECD Test Guideline 301D)

Chemical Oxygen Demand (COD) 110 mg/g  
 Remarks: (IUCLID)

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

Additional ecological information Discharge into the environment must be avoided.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

**SECTION 14: Transport information****14.1 UN number**

ADR/RID: 3077                      IMDG: 3077                      IATA-DGR: 3077

**14.2 UN proper shipping name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorhexidine)  
 IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorhexidine)  
 IATA-DGR: Environmentally hazardous substance, solid, n.o.s. (Chlorhexidine)

**14.3 Transport hazard class(es)**

ADR/RID: 9                      IMDG: 9                      IATA-DGR: 9

**14.4 Packaging group**

ADR/RID: III                      IMDG: III                      IATA-DGR: III

**14.5 Environmental hazards**

ADR/RID: yes                      IMDG Marine pollutant: yes                      IATA-DGR: yes

**14.6 Special precautions for user****14.7 Incompatible materials**

no information available

**Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Notification status**

<b>AICS:</b>	On the inventory, or in compliance with the inventory
<b>DSL:</b>	All components of this product are on the Canadian DSL
<b>ENCS:</b>	On the inventory, or in compliance with the inventory
<b>ISHL:</b>	On the inventory, or in compliance with the inventory
<b>KECI:</b>	Not in compliance with the inventory - Chlorhexidine
<b>NZIoC:</b>	On the inventory, or in compliance with the inventory
<b>PICCS:</b>	On the inventory, or in compliance with the inventory

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**SECTION 16: Other information****Full text of H-Statements referred to under sections 2 and 3.**

H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For further information please contact [curiousapemushrooms.com](http://curiousapemushrooms.com).

# Material Safety Data Sheet

Version 1.1

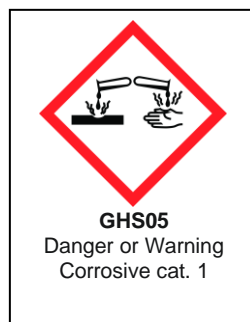
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Thank you for choosing our product. TrichTerminator™ contains 3% Chlorhexidine, a powerful antimicrobial agent. Chlorhexidine is a broad-spectrum biocide effective against Gram-positive bacteria, Gram-negative bacteria and fungi.

## 1.1 Product Identifiers

Product Name : Chlorhexidine (3%)  
 Product Number : 282227  
 Brand : Curious Ape Mushrooms  
 CAS-No. : 55-56-1



CAS No	Chemical Name	Hazard Category	Pictogram Codes and Signal Word	Hazard Statement Code	Hazard Statement	Notes	Sources
55-56-1	2,4,11,13-Tetraazatetradecanediimidamide, N,N'-bis(4-chlorophenyl)-3,12-diimino-	Eye damage – category 1; Respiratory sensitisation – category 1; Skin sensitisation – category 1	GHS05; GHS08; Danger	H318; H334; H317	Causes serious eye damage; May cause allergy or asthma symptoms or breathing difficulties if inhaled; May cause an allergic skin reaction	8	N

## 2.2 To ensure safe usage, please read and follow these safety guidelines:

**Keep Out of Reach of Children:** Store the product in a secure place out of children's reach to avoid accidental ingestion or misuse.

**Avoid eye Contact:** In case of accidental contact with eyes, rinse thoroughly with water and seek medical attention if irritation persists.

**Protective Gear:** Wear appropriate personal protective equipment, such as gloves and eye protection, when handling the product.

**Ventilation:** Use the product in a well-ventilated area to prevent excessive inhalation of vapors.

**First Aid:** If swallowed, do not induce vomiting. Seek immediate medical attention and show the product's label or Safety Data Sheet (SDS) to healthcare providers.

**Disposal:** Dispose of the product and its packaging according to local regulations. Do not pour it down drains or dispose of it in the environment.

**Avoid Mixing:** Do not mix Chlorhexidine with other chemicals unless explicitly instructed by the manufacturer.

**Medical Conditions:** Individuals with known skin sensitivities or medical conditions should consult a healthcare professional before using the product.

**Storage:** Store the product in a cool, dry place away from direct sunlight and extreme temperatures.

**Read Instructions:** Read and follow the product's usage instructions carefully.

If you have any questions or concerns about the safe use of this product, do not hesitate to contact our customer support team: [curiousapemushrooms@gmail.com](mailto:curiousapemushrooms@gmail.com)