

SAFETY DATA SHEET

Green slime remover

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

- Product name** : Green slime remover
Product use : Is a surface Biocide for amateur use for the control of fungi, mould, moss, lichen, mildew and algae on external surfaces such as masonry, tiles, roofs, walls, patios, paths, fences, boats, caravans etc.

Company/undertaking identification

- Manufacturer** : HG International b.v. **Telephone No.:** : +31 (0)36 54 94 700
Address : Damsluisweg 70 **Fax** : +31 (0)36 54 94 744
 1332 EJ Almere **Internet:** : www.hginternational.com
Country : Netherlands
Importer : HG UK
Address : Unit 11 Grange Way Business Park Whitehall Road Industrial Estate
 Uk Colchester Essex CO2 8HF
Telephone No.: : +44.1206.795.200
Fax : +44.1206.795.201
Country : United Kingdom (UK)

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	EC Number	%	Classification
United Kingdom (UK)				
Didecyldimethylammonium chloride	7173-51-5	230-525-2	1 - 5	Xn; 22 C; 34
propan-2-ol	67-63-0	200-661-7	1 - 5	F; 11 Xi; 36 67

See section 16 for the full text of the R Phrases declared above

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; 36/38

Human health hazards : Irritating to eyes and skin.

See section 11 for more detailed information on health effects and symptoms.

Date of issue

20-10-2005.

Version

5.04

Page: 1/6

SAFETY DATA SHEET

Green slime remover

4. First aid measures

First aid measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin Contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.
- Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.
- Notes to physician** : Not available.
- Specific treatments** : Not available.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing media** : Use an extinguishing agent suitable for surrounding fires.
- Special exposure hazards** : No specific hazard.
Not available.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), halogenated compounds, hydrogen chloride.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Not available.

SAFETY DATA SHEET

Green slime remover

8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> propan-2-ol	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 1250 mg/m ³ 15 minute(s). Form: All forms STEL: 500 ppm 15 minute(s). Form: All forms TWA: 999 mg/m ³ 8 hour(s). Form: All forms TWA: 400 ppm 8 hour(s). Form: All forms

Exposure controls

- Occupational exposure controls** : No special ventilation requirements.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hour(s) (breakthrough time): Butyl rubber gloves.
- Eye protection** : safety glasses with side shields
- Skin protection** : Work uniform or laboratory coat.

9. Physical and chemical properties

General information

- Appearance**
- Physical state** : Liquid.
- Colour** : Colourless. Clear
- Odour** : Characteristic.

Important health, safety and environmental information

- pH** : 8 (Conc. (% w/w): 100) [Basic.]
- Melting point** : May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -1.87°C (28.6°F)
- Boiling point** : The lowest known value is 82.5°C (180.5°F) (propan-2-ol). Weighted average: 99.63°C (211.3°F)
- Flash point** : Closed cup: Between 61°C (142°F) and 93.3°C (200°F). (Pensky-Martens.)
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Not available.
- Oxidising properties** : Not available.
- Relative density** : 0.99 g/ml (20°C / 68°F)
- Solubility** : Easily soluble in diethyl ether, acetone.
Soluble in cold water, hot water.
- Evaporation rate (butyl acetate = 1)** : 1.7 (propan-2-ol) compared to Butyl acetate.

Other information

- Auto-ignition temperature** : The lowest known value is 399°C (750.2°F) (propan-2-ol).

Date of issue	Version	Page:
20-10-2005.	5.04	3/6

SAFETY DATA SHEET

Green slime remover

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Stable under recommended storage and handling conditions (see section 7).
- Materials to avoid** : Slightly reactive to reactive with acids.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), halogenated compounds, hydrogen chloride.

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin Contact** : Irritating to skin.
- Eye contact** : Irritating to eyes.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Didecyldimethylammonium chloride	LD50	84 mg/kg	Oral	Rat
	LD50	268 mg/kg	Oral	Mouse
	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LD50	12800 mg/kg	Dermal	Rabbit
	LDLo	1537 mg/kg	Oral	Dog
	LDLo	3570 mg/kg	Oral	human
	LDLo	5272 mg/kg	Oral	man

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

- Other adverse effects** : Not available.

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
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Date of issue

20-10-2005.

Version

5.04

Page: 4/6

SAFETY DATA SHEET

Green slime remover

Didecyldimethylammonium chloride	Trout (EC50)	96 hour(s)	1 mg/l	
	DAPHNIA MAGNA (EC50)	48 hour(s)	0.094 mg/l	
	Scenedesmus subspicatus (EC50)	72 hour(s)	0.33 mg/l	
	Lepomis macrochirus (LC50)	96 hour(s)	0.27 mg/l	
	Lepomis macrochirus (LC50)	96 hour(s)	0.32 mg/l	
	Pimephales promelas (LC50)	96 hour(s)	0.33 mg/l	
	propan-2-ol	Pimephales promelas (EC50)	48 hour(s)	10000 mg/l
		Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
		Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
		Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
Pimephales promelas (LC50)		96 hour(s)	10400 mg/l	
Pimephales promelas (LC50)	96 hour(s)	11130 mg/l		

No known significant effects or critical hazards.

Other adverse effects

13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Waste classification** : Not applicable.
: Not available.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
ADN Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IMDG Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IATA-DGR Class	Not regulated.	-	-	-		Remarks Keep in frostfree area

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Date of issue

20-10-2005.

Version

5.04

Page: 5/6

SAFETY DATA SHEET

Green slime remover

	Irritant
Risk Phrases	: R36/38- Irritating to eyes and skin.
Safety Phrases	: S2- Keep out of the reach of children. S25- Avoid contact with eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves. S46- If swallowed, seek medical advice immediately and show this container or label. S64- If swallowed, rinse mouth with water (only if the person is conscious).
Other EU regulations	: Not available.
Product use	: Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use. - Consumer applications.
Additional warning phrases	: HSE No.: 6086
EC Statistical classification (Tariff Code)	: 32089091
Ingredients identification information	: less than 5%: cationic surfactants.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) : R11- Highly flammable.
R22- Harmful if swallowed.
R34- Causes burns.
R36- Irritating to eyes.
R36/38- Irritating to eyes and skin.
R67- Vapours may cause drowsiness and dizziness.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : F - Highly flammable
C - Corrosive
Xn - Harmful
Xi - Irritant

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Verified by T. Rutgers.

Notice to reader

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