



This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by Directive 2001/58/EC



SAFETY DATA SHEET

Hagesan green

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

Identification of the substance or preparation

Product name : Hagesan green
Product use : For the regular upkeep of sanitary equipment, swimming pools, 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)				
gluconic acid, d- Fatalcholethoxylate	526-95-4 69011-36-5	208-401-4 polymer	5 - 15 5 - 15	Xi; 36 Xn; 22 Xi; 41
phosphoric acid propan-2-ol	7664-38-2 67-63-0	231-633-2 200-661-7	1 - 5 1 - 5	C; 34 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; R36
Human health hazards : Irritating to eyes.

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

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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 with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.
- 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. In case of fire, use water spray (fog), foam, dry chemical or CO₂ extinguisher or spray.
- Special exposure hazards** : No specific hazard.
Not available.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂), phosphates.
- Special protective equipment for fire-fighters** : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

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. 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.

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8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> phosphoric acid	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 2 mg/m ³ 15 minute(s). Form: All forms TWA: 1 mg/m ³ 8 hour(s). Form: All forms
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** : Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : Butyl rubber gloves. (0.7 mm) Permeation time >= 8 hours: (5 mm)
- Eye protection** : splash goggles
- Skin protection** : Work uniform or laboratory coat.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Liquid.
- Colour** : Clear Yellow. (Light.)
- Odour** : Characteristic.

Important health, safety and environmental information

- pH** : 1.2 (Conc. (% w/w): 100) [Acidic.]
- Melting point** : May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -3.61°C (25.5°F)
- Boiling point** : The lowest known value is 82.5°C (180.5°F) (propan-2-ol). Weighted average: 99.37°C (210.9°F)
- Flash point** : Closed cup: 72°C (161.6°F). (Pensky-Martens.)
- Explosive properties** : Not available.
- Oxidising properties** : Not available.
- Relative density** : 1.041 g/cm³ (20°C / 68°F)
- Solubility** : Easily soluble in cold water, hot water, diethyl ether, acetone.
- Viscosity** : Dynamic: The highest known value is 157 cP (Fatalcohoethoxylate)
- Evaporation rate (butyl acetate = 1)** : 1.7 (propan-2-ol) compared to Butyl acetate.

Other information

- Auto-ignition temperature** : The lowest known value is 365°C (689°F) (Fatalcohoethoxylate).

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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** : Reactive with alkalis.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂), phosphates.

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** : No known significant effects or critical hazards.
- Eye contact** : Irritating to eyes.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
gluconic acid, d-	LD50	2000 mg/kg	Oral	Rat
Fatalcoholethoxylate	LD50	200 to 2000 mg/kg	Oral	Rat
phosphoric acid	LD50	1530 mg/kg	Oral	Rat
	LD50	2740 mg/kg	Dermal	Rabbit
propan-2-ol	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: lungs, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Other adverse effects : Not available.

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12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Fatalcoholethoxylate	Flora. (EC50)	72 hour(s)	1 to 10 mg/l
	LEUCISCUS IDUS (LC50)	96 hour(s)	1 to 10 mg/l
	Aquatic Invertebrates. (LC50)	48 hour(s)	1 to 10 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

<u>Regulatory information</u>	<u>UN number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing group</u>	<u>Label</u>	<u>Additional Information</u>
ADR/RID Class	Not regulated.	-	-	-		-
ADN Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Irritant

Risk Phrases : R36- Irritating to eyes.

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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. 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.
EC Statistical classification (Tariff Code)	: 32089091
Ingredients identification information	: 5% or over but less than 15%: non-ionic surfactants. ;perfumes.

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. R41- Risk of serious damage to eyes. 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

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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