

**SAFETY DATA SHEET**

Hagesan green

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

Product name : Hagesan green
Manufacturer : HG International B.V. **Telephone No.:** : +31 (0)36 5494700
Address : Damsluisweg 70 **Fax** : +31 (0)36 5494744
1332 EJ Almere **Country** : The Netherlands

2. Composition / information on ingredients

Substance/Preparation : Preparation

Chemical name*	CAS No.	%	EINECS Nr	Symbol	R-Phrases
Europe					
1) Isopropanol	67-63-0	1-5	200-661-7	F	R11, R36, R67
2) Phosphoric acid	7664-38-2	1-5	2316332	C	R34
3) Gluconic acid	526-95-4	5-15	208-401-4	Xi	R36
4) Isotridecanoethoxylate	69011-36-5	5-15	500-241-6	Xn	R22, R36/38

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

3. Hazards identification

Physical/chemical hazards : Not applicable.
Human health hazards : Irritating to eyes.
Environmental hazards : Uit de beschikbare gegevens blijken geen milieurisico's

4. First-aid measuresFirst-Aid measures

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin Contact : Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Effects and symptoms

Inhalation : Not available.

Ingestion : Not available.

Skin Contact : Irritation of the product in case of skin contact: Not available. Sensitization of the product: Not available.

Eye Contact : Not available.

Aggravating conditions : Repeated or prolonged exposure is not known to aggravate medical condition.

Notes to physician : Not available.

Protection of first-aiders : Not available.

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**5. Fire-fighting measures****Extinguishing Media**

- Suitable** : SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam.
- Not suitable** : Do not use water jet.
- Unusual fire/explosion hazards** : Not available.
- Hazardous thermal (de)composition products** : These products are carbon oxides (CO, CO₂), phosphates.
- Special fire-fighting procedures** : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Protection of fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

- Personal precautions** : Safety glasses.
- Environmental Precautions and Clean-up Methods** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

7. Handling and storage

- Handling** : Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended use** : Use original container.
- Not suitable** : Not available.

8. Exposure controls/personal protection

- Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Occupational Exposure Limits** : Not available.

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
Europe	
1) Alcohol Ethoxylate	Not available.
2) Phosphoric acid	Not available.
3) isopropyl alcohol	ORAL (LD50): Acute: 5045 mg/kg [rat]. DERMAL (LD50): Acute: 12800 mg/kg [rabbit].
4) Gluconic acid	Not available.
Recommended monitoring procedures	: Not available.

Personal protective equipment

- Respiratory system** : Wear appropriate respirator when ventilation is inadequate.
- Skin and body** : Lab coat.
- Hands** : Not applicable.
- Eyes** : Safety glasses.

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9. Physical and chemical properties

Physical state	: Liquid.
Color	: Clear Yellow. (Light.)
Odor	: Characteristic.
Odor Threshold	: Not available.
Boiling Point	: The lowest known value is 82°C (179.6°F) (Isopropylalcohol (IPA)). Weighted average: 99.35°C (210.8°F)
Melting Point	: May start to solidify at 42°C (107.6°F) based on data for: H3PO4. Weighted average: -1.2°C (29.8°F)
Density	: 1.036 g/cm3
Solubility	: Easily soluble in cold water, hot water.
pH (1% opl./ water)	: 2.48 [Acidic.]
Flash point	: CLOSED CUP: 72°C (161.6°F). (Pensky-Martens.)
Flammability (solid, gas)	: Not considered to be flammable.
Autoignition temperature	: The lowest known value is 425°C (797°F) (Isopropylalcohol (IPA)).
Explosive properties	: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Flammable Limits	: The greatest known range is LOWER: 2% UPPER: 12% (Isopropylalcohol (IPA))
Viscosity	: Not available.

10. Stability and reactivity

Stability	: The product is stable.
Conditions to avoid	: Not available.
Materials to avoid	: Not available.
Hazardous Decomposition Products	: These products are carbon oxides (CO, CO2), phosphates.

11. Toxicological information

Local effects	
Skin irritation	: Not available.
Eye irritation	: Not available.
Sensitization	: Not available.
Acute toxicity	: Acute oral toxicity (LD50): 5045 mg/kg [Rat]. (Isopropylalcohol (IPA)). Acute dermal toxicity (LD50): 12800 mg/kg [Rabbit]. (Isopropylalcohol (IPA)).
Chronic toxicity	: Repeated or prolonged exposure is not known to aggravate medical condition.
Specific effects	
Carcinogenic effects	: Not available.
Mutagenic effects	: Not available.
Reproduction toxicity	: Not available.
Teratogenic effects	: TERATOGENIC EFFECTS: Not available.

12. Ecological information

Mobility	: Not available.
Persistence/degradability	: De resulterende oplossing is biologisch goed afbreekbaar.
Bioaccumulative potential	: Bioaccumulatie in het water levende organismen wordt niet verwacht.
Ecotoxicity	: Biodegradabel

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

International transport regulations

UN number : Not applicable.

Land - Road/Railway

Proper shipping name : Not applicable.

ADR/RID Class : Not applicable.

Packing Group :

Hazard Identification Number : Not available.

ADR/RID label :

RQ (Reportable Quantity) ADR : Not available.

Packaging Instruction : Not available.

Remarks : Not applicable.

Sea

Proper shipping name : Not applicable.

IMDG Class : Not controlled under IMDG.

Packing Group :

IMDG label :

Emergency Schedules (EmS) : Not available.

Marine Pollutant : Not available.

RQ (Reportable quantity) IMDG : Not available.

Packaging Instruction : Not available.

Remarks : Not applicable.

Air

Proper shipping name : Not applicable.

UN/ID Number : Not applicable.

IATA-DGR Class : Not controlled under IATA.

IATA label :

Packaging Instruction : Not available.

Remarks : Not applicable.

Inland waterways

Proper shipping name : Not applicable.

ADNR Classification : Not applicable.

UN/NA (Europe) ADNR : Not applicable.

Packing Group :

ADNR label :

Packaging Instruction : Not available.

Remarks : Not applicable.

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Classification : 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.

Other EU Regulations

Additional Warning Phrases : Not applicable.
Child Protection : Not applicable.
Tactile warning of danger : Not applicable.

16. Other information

HISTORY

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Verified by T. Rutgers.

Notice to Reader

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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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