

**SAFETY DATA SHEET****Hagesan blue****1. Identification of the substance/preparation and of the company/undertaking**

**Product name** : Hagesan blue  
**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
<b>Europe</b>					
1) Oxalic acid	144-62-7	1-5	205-634-3	Xn	R21/22
2) isopropyl alcohol	67-63-0	1-5	200-661-7	F, Xi	R11, R36, R67
3) Gluconic acid	526-95-4	1-5	208-401-4	Xi	R36
4) Isotridecanoethoxylate	69011-36-5	1-5	500-241-6	Xn	R22, R36/38
5) Phosphoric acid	7664-38-2	15-30	2316332	C	R34

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

**3. Hazards identification**

**Physical/chemical hazards** : Reactive with Chlorine bleaching agent alkalis

**Human health hazards** : Causes burns.

**Environmental hazards** : Not applicable.

**4. First-aid measures**First-Aid measures

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
- 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** : In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- 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** : Irritating to respiratory system.
- Ingestion** : Irritating to mouth, throat and stomach.
- Skin Contact** : Sensitization of the product: Not available.  
Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
- Eye Contact** : Hazardous in case of eye contact (irritant).
- Aggravating conditions** : Repeated or prolonged exposure is not known to aggravate medical condition.
- Notes to physician** : No additional information.
- Protection of first-aiders** : Gloves, Latex

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- Suitable** : In case of fire, use water spray (fog), foam, dry chemical, or CO<sub>2</sub>.
- Not suitable** : Not applicable.
- Unusual fire/explosion hazards** : No additional remark.
- Hazardous thermal (de)composition products** : Chlorine.
- Special fire-fighting procedures** : Cool containing vessels with flooding quantities of water until well after fire is out.
- Protection of fire-fighters** : Wear appropriate respirator when ventilation is inadequate. Protective Clothing

**6. Accidental release measures**

- Personal precautions** : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
- Environmental Precautions and Clean-up Methods** : Absorb with an inert material and put the spilled material in an appropriate waste disposal. **Neutralize the residue with a dilute solution of sodium carbonate.** Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

**7. Handling and storage**

- Handling** : Do not ingest. Ensure that eyewash station and safety shower is proximal to the work-station location. May react or be incompatible with alkalis.
- 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.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Occupational Exposure Limits** : Not available.

**Ingredient Name****Occupational Exposure Limits**

<b>Ingredient Name</b>	<b>Occupational Exposure Limits</b>
<b>Europe</b>	
1) Isotridecanoethoxylate	Not available.
2) isopropyl alcohol	ORAL (LD50): Acute: 5045 mg/kg [rat]. DERMAL (LD50): Acute: 12800 mg/kg [rabbit].
3) Gluconic acid	Not available.
4) Oxalic acid	DERMAL (LD50): Acute: 20000 mg/kg [rabbit].
5) Phosphoric acid	Not available.
<b>Recommended monitoring procedures</b>	: Not available.

**Personal protective equipment**

- Respiratory system** : Wear appropriate respirator when ventilation is inadequate.
- Skin and body** : Lab coat.
- Hands** : Gloves.
- Eyes** : Splash goggles.

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## 9. Physical and chemical properties

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Clear Yellow. (Light.)
<b>Odor</b>	: Perfumed
<b>Odor Threshold</b>	: Not available.
<b>Boiling Point</b>	: The lowest known value is 82°C (179.6°F) (Isopropylalcohol (IPA)). Weighted average: 99.5°C (211.1°F)
<b>Melting Point</b>	: May start to solidify at 0°C (32°F) based on data for: Water onthard. Weighted average: -2.49°C (27.5°F)
<b>Density</b>	: 1.135 g/cm3
<b>Solubility</b>	: Easily soluble in hot water. Soluble in cold water.
<b>pH (1% opl./ water)</b>	: 2.03 [Acidic.]
<b>Flash point</b>	: CLOSED CUP: Between 61°C (142°F) and 93.3°C (200°F).
<b>Flammability (solid, gas)</b>	: Not applicable.
<b>Autoignition temperature</b>	: Not applicable.
<b>Explosive properties</b>	: 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.
<b>Flammable Limits</b>	: Not applicable.
<b>Viscosity</b>	: Not available.

## 10. Stability and reactivity

<b>Stability</b>	: The product is stable.
<b>Conditions to avoid</b>	: Avoid excessive heat.
<b>Materials to avoid</b>	: Highly reactive with Chlorine bleaching agent Reactive with alkalis metals
<b>Hazardous Decomposition Products</b>	: Chlorine.

## 11. Toxicological information

<b>Local effects</b>	
<b>Skin irritation</b>	: Hazardous in case of skin contact (irritant).
<b>Eye irritation</b>	: Hazardous in case of eye contact (irritant).
<b>Sensitization</b>	: Not available.
<b>Acute toxicity</b>	: Acute oral toxicity (LD50): 5045 mg/kg [Rat]. (Isopropylalcohol (IPA)). Acute dermal toxicity (LD50): 12800 mg/kg [Rabbit]. (Isopropylalcohol (IPA)).
<b>Chronic toxicity</b>	: Repeated or prolonged exposure is not known to aggravate medical condition.
<b>Specific effects</b>	
<b>Carcinogenic effects</b>	: Not applicable.
<b>Mutagenic effects</b>	: Not applicable.
<b>Reproduction toxicity</b>	: Not applicable.
<b>Teratogenic effects</b>	: Not applicable.

## 12. Ecological information

<b>Mobility</b>	: Not available.
<b>Persistence/degradability</b>	: Expected to be biodegradable.
<b>Bioaccumulative potential</b>	: Not available.
<b>Ecotoxicity</b>	: Not applicable.

### 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** : 1760

#### Land - Road/Railway

**Proper shipping name** : UN 1760, "dangerous goods in imited quantities of class 8, III, ADR

**ADR/RID Class** : 8

**Packing Group** : III

**Hazard Identification Number** : 80

**ADR/RID label** :



**RQ (Reportable Quantity) ADR** : 12

**Packaging Instruction** : Not available.

**Remarks** : Limited quantity for upto 3 litre inner packing Else; UN 1760, CORROSIVE LIQUID, N.O.S., (Phosphoric acid, mixture), class 8, III, ADR

#### Sea

**Proper shipping name** : "dangerous goods in limited quantities of class 8", UN 1760, PG III

**IMDG Class** : 8

**Packing Group** : III

**IMDG label** :



**Emergency Schedules (EmS)** : 8-15

**Marine Pollutant** : Not pollutant.

**RQ (Reportable quantity) IMDG** : 30

**Packaging Instruction** : Not available.

**Remarks** : Limited quantity for upto 1 l inner packing. Else; CORROSIVE LIQUID, N.O.S., (Phosphoric acid, 20%, mixture), class 8, UN 1760, PG III

#### Air

**Proper shipping name** : "dangerous goods in limited quantities of class 8", UN 1760, PG III

**UN/ID Number** : 1760

**IATA-DGR Class** : CLASS 8: Corrosive liquid.

**IATA label** :



**Packaging Instruction** : Not available.

**Remarks** : Not available.

#### Inland waterways

**Proper shipping name** : UN 1760, "dangerous goods in imited quantities of class 8, III, ADNR

**ADNR Classification** : 8

**UN/NA (Europe) ADNR** : 1760

**Packing Group** : III

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ADNR label

:



Packaging Instruction

: Not available.

Remarks

: Limited quantity for upto 3 litre inner packing Else; UN 1760, CORROSIVE LIQUID, N.O.S., (Phosphoric acid, mixture), class 8, III, ADNR

## 15. Regulatory information

### EU Regulations

Hazard symbol(s)

:



Classification

: Corrosive

Risk Phrases

: R34- Causes burns.

Safety Phrases

: S1/2- Keep locked up and out of the reach of children.  
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28- After contact with skin, wash immediately with plenty of water.  
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.  
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Other EU Regulations

Additional Warning Phrases

: Not applicable.

Child Protection

: Yes, applicable.

Tactile warning of danger

: Yes, applicable..

## 16. Other information

### HISTORY

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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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