

# SAFETY DATA SHEET

## Graffiti remover

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

**Identification of the substance or preparation**

**Product name** : **Graffiti remover**  
**Product use** : Suited for the safe removal of spray paint and felt-tip pen marking on vulnerable surfaces such as lacquer, paint and plastic

**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
<b>United Kingdom (UK)</b>				
ethanol, 2-(2-ethoxyethoxy)- Fatalcohol ethoxylate	111-90-0	203-919-7	30 - 100	Xi; 36
	69011-36-5	polymer	5 - 15	Xn; 22 Xi; 41
butanedioic acid, dimethyl ester N-Methyl-2-pyrrolidone (R)-p-Mentha-1,8-diene	106-65-0	203-419-9	5 - 15	Xi; 36
	872-50-4	212-828-1	5 - 15	Xi; 36/38
	5989-27-5	227-813-5	1 - 5	10 Xi; 38 43
2-Aminoethanol	141-43-5	205-483-3	1 - 5	N; 50/53 Xn; 20 Xi; 36/37/38

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; R36/38  
 R43  
 R52/53

**Human health hazards** : Irritating to eyes and skin.  
 May cause sensitisation by skin contact.

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**Environmental hazards** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

#### 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.  
This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).
- 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.
- Remark** : No additional remark.

#### 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.

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#### 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Avoid contact of spilled material and runoff with soil and surface waterways. 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.

#### 8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> N-Methyl-2-pyrrolidone	<b>EH40-WEL (United Kingdom (UK), 1/2005). Skin</b> STEL: 309 mg/m <sup>3</sup> 15 minute(s). Form: All forms STEL: 75 ppm 15 minute(s). Form: All forms TWA: 103 mg/m <sup>3</sup> 8 hour(s). Form: All forms TWA: 25 ppm 8 hour(s). Form: All forms
2-Aminoethanol	<b>EH40-WEL (United Kingdom (UK), 1/2005).</b> STEL: 15 mg/m <sup>3</sup> 15 minute(s). Form: All forms STEL: 6 ppm 15 minute(s). Form: All forms TWA: 7,6 mg/m <sup>3</sup> 8 hour(s). Form: All forms TWA: 3 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. After handling, always wash hands thoroughly with soap and water.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : Butyl rubber gloves. 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. (pasty)
- Colour** : Blue.
- Odour** : Characteristic.

##### Important health, safety and environmental information

- pH** : 10 (Conc. (% w/w): 10) [Basic.]
- Melting point** : May start to solidify at 10°C (50°F) based on data for: 2-Aminoethanol. Weighted average: -56.27°C (-69.3°F)
- Boiling point** : 196°C (384.8°F)
- Flash point** : Closed cup: 96°C (204.8°F). (Pensky-Martens.)
- Explosive properties** : Explosive in presence of oxidising materials, of acids, of alkalis.
- Explosion Limits** : Lower: 0.9% Upper: 11.6%
- Oxidising properties** : Not available.
- Relative density** : 1.035 to 1.075 g/cm<sup>3</sup> (20°C / 68°F)

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- Solubility** : Easily soluble in methanol, diethyl ether, acetone.  
Partially soluble in cold water, hot water.
- Viscosity** : Dynamic: 144927 to 158139 cP
- Evaporation rate (butyl acetate = 1)** : The highest known value is 0.03 (N-Methyl-2-pyrrolidone) Weighted average: 0.02 compared to Butyl acetate.
- Other information**
- Auto-ignition temperature** : The lowest known value is 204.44°C (400°F) (ethanol, 2-(2-ethoxyethoxy)-).

## 10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Keep away from heat, sparks and flame.
- Materials to avoid** : Reactive with oxidising agents, acids, alkalis.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

## 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. May cause sensitisation by skin contact.
- Eye contact** : Irritating to eyes.

### Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
ethanol, 2-(2-ethoxyethoxy)-	LD50	3620 mg/kg	Oral	Rabbit
	LD50	8500 mg/kg	Dermal	Rabbit
	LD50	6000 mg/kg	Dermal	Rat
Fatalcoholethoxylate	LD50	200 to 2000 mg/kg	Oral	Rat
	LD50	>5000 mg/kg	Oral	Rat
butanedioic acid, dimethyl ester	LD50	>5000 mg/kg	Dermal	Rabbit
	LD50	3914 mg/kg	Oral	Rat
N-Methyl-2-pyrrolidone	LD50	5130 mg/kg	Oral	Mouse
	LD50	4400 mg/kg	Oral	Rat
(R)-p-Mentha-1,8-diene	LD50	5600 mg/kg	Oral	Mouse
	LD50	1720 mg/kg	Oral	Rat
2-Aminoethanol	LD50	620 mg/kg	Oral	Guinea pig
	LD50	700 mg/kg	Oral	Mouse
	LD50	1400 mg/kg	Oral	Mammal
	LDLo	1400 mg/kg	Oral	Mammal

- 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

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: 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>
ethanol, 2-(2-ethoxyethoxy)-	Pimephales promelas (LC50)	96 hour(s)	9650 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>10000 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	13400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	13900 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	21400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	26500 mg/l
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
N-Methyl-2-pyrrolidone	LEUCISCUS IDUS (LC50)	96 hour(s)	4000 mg/l
	Daphnia (LC50)	24 hour(s)	>1000 mg/l
	Algae (LC50)	72 hour(s)	>500 mg/l
(R)-p-Mentha-1,8-diene	Daphnia pulex (EC50)	48 hour(s)	69.6 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.702 mg/l
2-Aminoethanol	Oncorhynchus mykiss (LC50)	96 hour(s)	150 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	150 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	>200 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	300 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>300 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	329.16 mg/l

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**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

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

## 15. Regulatory information

### EU Regulations

**Hazard symbol(s)**

:



Irritant

**Risk Phrases**

:

R36/38- Irritating to eyes and skin.  
R43- May cause sensitization by skin contact.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases**

:

S2- Keep out of the reach of children.  
S29/56- Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.  
S36/37- Wear suitable protective clothing and gloves.  
S46- If swallowed, seek medical advice immediately and show this container or label.  
S51- Use only in well-ventilated areas.  
S64- If swallowed, rinse mouth with water (only if the person is conscious).

**Contains**

:

(R)-p-Mentha-1,8-diene 227-813-5

**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. ;Limonene.

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#### 16. Other information

**Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK)** : R10- Flammable.  
R20- Harmful by inhalation.  
R22- Harmful if swallowed.  
R36- Irritating to eyes.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
R36/38- Irritating to eyes and skin.  
R38- Irritating to skin.  
R41- Risk of serious damage to eyes.  
R43- May cause sensitization by skin contact.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)** : Xn - Harmful  
Xi - Irritant  
N - Dangerous for the environment.

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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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