

SAFETY DATA SHEET

Cement, mortar & efflorescence remover (limex)

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

Identification of the substance or preparation

Product name : Cement, mortar & efflorescence remover (limex)
Product use : Removes tenacious surplus cement from ceramic tiles, flag stones and non-calciferous natural stones such as Norwegian slate, granite, sandstone, quartz ore, 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)				
Hydrochloric acid	7647-01-0	231-595-7	5 - 15	C; 34 Xi; 37
Sulphamidic acid	5329-14-6	226-218-8	1 - 5	Xi; 36/38 52/53
Fatalcoholethoxylate	69011-36-5	polymer	1 - 5	Xn; 22 Xi; 41

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 : C; R34
Xi; R37

Human health hazards : Causes burns.
Irritating to respiratory system.

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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention immediately.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.
- 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.
- 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** : Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapour or mist. 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> Hydrochloric acid	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 8 mg/m ³ 15 minute(s). Form: All forms STEL: 5 ppm 15 minute(s). Form: All forms TWA: 2 mg/m ³ 8 hour(s). Form: All forms TWA: 1 ppm 8 hour(s). Form: All forms

Exposure controls

- Occupational exposure controls** : After handling, always wash hands thoroughly with soap and water. When using do not eat, drink or smoke. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : Wear appropriate respirator when ventilation is inadequate.
- 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.
- Colour** : Colourless to light yellow. (Light.)
- Odour** : Characteristic.

Important health, safety and environmental information

- pH** : <1 (Conc. (% w/w): 100) [Acidic.]
- Melting point** : May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -0.21°C (31.6°F)
- Boiling point** : The lowest known value is 100°C (212°F) (Water).
- Flash point** : Not applicable.
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Not available.
- Oxidising properties** : Not available.
- Relative density** : 1.071 g/cm³ (20°C / 68°F)
- Solubility** : Soluble in cold water, hot water.
- Viscosity** : Dynamic: The highest known value is 157 cP (Fatalcoholethoxylate)

Other information

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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 : Highly reactive with alkalis.

11. Toxicological information

Potential acute health effects

- Inhalation** : Corrosive to the respiratory system.
Ingestion : May cause burns to mouth, throat and stomach.
Skin Contact : Corrosive to the skin.
Eye contact : Corrosive to eyes.

Acute toxicity

<u>Inгредиент name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Sulphamidic acid	LD50	3160 mg/kg	Oral	Rat
	LD50	1050 mg/kg	Oral	Guinea pig
	LD50	1312 mg/kg	Oral	Mouse
Fatalcoholethoxylate	LD50	200 to 2000 mg/kg	Oral	Rat

- 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: skin, eyes.

- Other adverse effects** : Not available.

12. Ecological information

Ecotoxicity data

<u>Inгредиент name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Sulphamidic acid	PIMEPHALES PROMELAS (LC50)	96 hour(s)	>14.2 mg/l
	Pimephales promelas (LC50)	96 hour(s)	70.3 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

No known significant effects or critical hazards.

Other adverse effects

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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	1760	UN 1760, "dangerous goods in limited quantities of class 8", III, ADR mixture (Hydrochloric acid)	8	III		<p>Hazard identification number 80</p> <p>Reportable quantity 12</p> <p>Remarks Limited quantity for upto 3 litre inner packing Else; UN 1760, CORROSIVE LIQUID, N.O.S., (Hydrochloric acid, 10%, mixture), class 8, III, ADR</p>
ADN Class	1760	UN 1760, "dangerous goods in limited quantities of class 8", III, ADN mixture (Hydrochloric acid)	8	III		<p>RQ (Reportable quantity) ADN 12</p> <p>Remarks Limited quantity for upto 3 litre inner packing Else; UN 1760, CORROSIVE LIQUID, N.O.S., (Hydrochloric acid, 10%, mixture), class 8, III, ADN</p>

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IMDG Class	1760	"dangerous goods in limited quantities of class 8" UN 1760, PG III mixture (Hydrochloric acid)	8	III		Emergency schedules (EmS) F-A, S-B Reportable quantity 30 Remarks Limited quantity for upto 1 litre inner packing Else; UN 1760, CORROSIVE LIQUID, N.O.S., (Hydrochloric acid, 10%, mixture), class 8, PG III
IATA-DGR Class	1760	"dangerous goods in limited quantities of class 8" UN 1760, PG III mixture (Hydrochloric acid)	8	III		Remarks Dangerous goods in limited quantities

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Corrosive

Risk Phrases :

- R34- Causes burns.
- R37- Irritating to respiratory system.

Safety Phrases :

- S1/2- Keep locked up and 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.
- 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).
- 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.

Other EU regulations

Child protection :

Yes, applicable.

Tactile warning of danger :

Yes, applicable.

EC Statistical classification (Tariff Code) :

32089091

Ingredients identification information :

less than 5%: non-ionic surfactants;perfumes.

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



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16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) : R22- Harmful if swallowed.
R34- Causes burns.
R36/38- Irritating to eyes and skin.
R37- Irritating to respiratory system.
R41- Risk of serious damage to eyes.
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) : 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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