



Material Safety Data Sheet

Cement, mortar & efflorescence remover
(limex)



Section 1. Chemical Product and Company Identification

Supplier	HG USA, Inc.	MSDS#	1.10
Address	1328 River Avenue, pmb 332 Lakewood, NJ 08701	Validation Date	12-3-2002
Telephone No.:	+1.888.615.2128	Print Date	13-3-2002
Manufacturer	HG International b.v.	Responsible Name	P. Stienstra
Country	Netherlands	Product No.	171100102
In Case of Emergency	Chem. Tel Inc. (813) 248 0585 or Toll free (800) 255 3924		

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Hydrochloric acid	7647-01-0	5-15	CEIL: 5 (ppm) from ACGIH (TLV) [United States] CEIL: 5 (ppb) from OSHA (PEL) [United States]
2) Sulfamic acid	5329-14-6	1-5	Not available.
3) Organic additive	Trade secret	1-5	Not available.

Section 3. Hazards Identification

Physical State and Appearance	Liquid.
Emergency Overview	CAUTION! MAY BE HARMFUL IF INHALED OR SWALLOWED. CAUSES EYE AND SKIN BURNS. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Routes of Entry	Skin, eye, ingestion, inhalation
Potential Acute Health Effects	<p>Eyes Causes eye burns. May result in permanent damage.</p> <p>Skin Causes skin burns. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p>Inhalation Can cause irritation and shortness of breath.</p> <p>Ingestion May cause burns to mouth, throat and stomach.</p>
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not regulated. MUTAGENIC EFFECTS: Not regulated. TERATOGENIC EFFECTS: Not regulated.
Medical Conditions Aggravated by Overexposure:	Repeated or prolonged exposure is not known to aggravate medical condition.
Overexposure /Signs/Symptoms	Severe burns and irritation to skin, eyes and internal system after prolonged exposure
See Toxicological Information (section 11)	

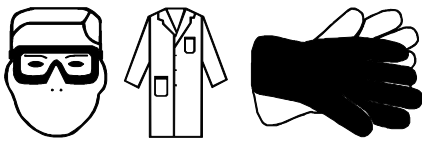
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Section 4. First Aid Measures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get immediate medical attention.
Skin Contact	In case 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 for any symptoms resulting from skin contact.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if irritation develops.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. If conscious, drink one or two large glasses of water. Get medical attention if symptoms appear.
Notes to Physician	Not available.
Section 5. Fire Fighting Measures	
Flammability of the Product	Non-flammable.
Auto-ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	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.
Fire Fighting Media and Instructions	Use extinguishing media suitable for surrounding materials.
Protective Clothing (Fire)	Protective Clothing Gloves. Boots. Wear appropriate respirator when ventilation is inadequate.
Special Remarks on Fire Hazards	Non combustible.
Special Remarks on Explosion Hazards	No additional remark.
Section 6. Accidental Release Measures	
Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.
Large Spill and Leak	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.

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Section 7. Handling and Storage				
Handling	Avoid contact with eyes, skin, and clothing. Do not ingest. Avoid breathing vapors or spray mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.			
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.			
Section 8. Exposure Controls/Personal Protection				
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.			
Personal Protection				
Eyes	Splash goggles.			
Body	Lab coat.			
Respiratory	Wear appropriate respirator when ventilation is inadequate.			
Hands	Gloves.			
Feet	Boots (advisable)			
Protective Clothing (Pictograms)				
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.			
Product Name	Exposure Limits			
1) Hydrochloric acid	CEIL: 5 (ppm) from ACGIH (TLV) [United States] CEIL: 5 (ppb) from OSHA (PEL) [United States]			
2) Sulfamic Acid	Not available.			
3) Organic additive	Not available.			
Consult local authorities for acceptable exposure limits.				
Section 9. Physical and Chemical Properties				
Physical State and Appearance	Liquid. Odor Acetic acid.			
Critical Temperature	Not available. Taste Not available.			
Density	1.071 g/cm ³ Color Colorless to light yellow. (Light.)			
pH (1% Soln/Water)	2.01 [Acidic.]			
Boiling/Condensation Point	The lowest known value is 100°C (212°F) (Softened Water).			
Melting/Freezing Point	May start to solidify at 0°C (32°F) based on data for: Softened Water.			
Flash point	Not applicable.			
Viscosity	Not available.			
Odor Threshold	Not available.			
Dispersion Properties	See solubility in water.			
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Solubility	Easily soluble in hot water. Soluble in cold water.
Physical Chemical Comments	Not available.
Section 10. Stability and Reactivity	
Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Highly reactive with Chlorine bleaching agent Reactive with alkalis metals
Hazardous Decomposition Products	These products are halogenated compounds. carbon oxides (CO, CO ₂)
Hazardous Polymerization	Will not occur.
Section 11. Toxicological Information	
Toxicity to Animals	Acute oral toxicity (LD50): 700 mg/kg [Rat]. (Hydrochloric acid). Acute oral toxicity (LD50): 3160 mg/kg [Rat] (Sulfamic acid)
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	No additional remark.
Special Remarks on Toxicity to Animals	Very low toxicity for humans or animals.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.
Section 12. Ecological Information	
Ecotoxicity	This product is not water contaminating
BOD5 and COD	Not available.
Biodegradable/OECD	This product is fully biodegradable
Mobility	Not available. not available
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	Not available.

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Section 13. Disposal Considerations		
Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
Waste Stream	Not available.	
Consult your local or regional authorities.		
Section 14. Transport Information		
DOT Classification	UN 1760, CORROSIVE LIQUID , N.O.S., (Hydrochloric Acid, 10%, mixture) Class 8, PG III	
Marine Pollutant	Not applicable.	
Hazardous Substances Reportable Quantity	Not available.	
Special Provisions for Transport	Not available.	
TDG Classification	UN 1760, CORROSIVE LIQUID , N.O.S., (Hydrochloric Acid, 10%, mixture) Class 8, PG III	
ADR/RID Classification	UN 1760, "dangerous goods in imited quantities of class 8, III, ADR	
IMO/IMDG Classification	"dangerous goods in limited quantities of class 8", UN 1760, PG III	
ICAO/IATA Classification	CLASS 8: Corrosive liquid.	
UN number	1760	
Section 15. Regulatory Information		
HCS Classification	CLASS: Corrosive material	
U.S. Federal Regulations	<p>TSCA: No products were found.</p> <p>SARA 302/304/311/312 extremely hazardous substances: No products were found.</p> <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 302/304/311/312 hazardous chemicals: No products were found.</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.</p> <p>SARA 313 toxic chemical notification and release reporting: Hydrochloric acid (as hydrogen chloride). Maximum concentration:10 %</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean air act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean air act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean air act (CAA) 112 regulated toxic substances: No products were found.</p>	
International Regulations		
WHMIS (Canada)	CLASS E: Corrosive liquid.	
	No products were found.	
EINECS	Not available.	
DSCL (EEC)	R36/38- Irritating to eyes and skin.	
International Lists	No products were found.	
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State Regulations No products were found.
California prop. 65: No products were found.

Section 16. Other Information

Label Requirements MAY BE HARMFUL IF INHALED OR SWALLOWED. CAUSES EYE AND SKIN BURNS.

Hazardous Material Information System (U.S.A.)

Health	1
Fire Hazard	0
Reactivity	1
Personal Protection	b

National Fire Protection Association (U.S.A.)



References Not available.

**Other Special
Considerations** Not available.

Validated by P. Stienstra on 12-3-2002.

Verified by P. Stienstra.

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In Case of Emergency Chem. Tel Inc.
(813) 979 0626 or
Toll free (800) 255 3924

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