



Material Safety Data Sheet




Extra cement & grout residue remover

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 1011064
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 1.07
Country : Netherlands **Validation date** : 5/19/2010.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 5/19/2010.
Fax : +31 (0)36 54 94 744 **Responsible name** : P. Stienstra
Internet: : www.hg.eu **Telephone No.:** : +1.705.726.5445
Supplier : Solstrand Trading **Fax** : +1.705.734.0857
Address : 60 Lockhart road Barrie, Ontario L4N 9G8 **Country** : Canada

Material uses : Cleaner.

 **In Case of Emergency** : Chem. Tel Inc. (813) 248 0585 or Toll free (800) 255 3924

Section 2. Composition, Information on Ingredients

Name	CAS #	% by weight	Exposure limits
aqua	7732-18-5	30-100	Not available.
phosphoric acid	7664-38-2	15 - 30	Not available.
ethanedioic acid, dihydrate	144-62-7	1 - 5	Not available.
propan-2-ol	67-63-0	1 - 5	Not available.
gluconic acid, d-	526-95-4	1 - 5	Not available.
alcohols, c11-14-iso-, c13-rich, ethoxylated	78330-21-9	1 - 5	Not available.
Mixture of mineral oils and non-ionic surfactants	mixture	0-1	Not available.
Perfume ingredient.	mixture	0-1	Not available.
castor oil, hydrogenated, ethoxylated	61788-85-0	0-1	Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid.

Emergency overview : DANGERCORROSIVE.
Causes burns. Dangerous fumes form when mixed with other products.
Combustible liquid. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Avoid contact with skin and clothing. Contains material that can cause target organ damage. Use only with adequate ventilation.

Routes of entry : Dermal contact. Eye contact. Ingestion.

Potential acute health effects

Eyes : Severely corrosive to the eyes. Causes severe burns.

Skin : Severely corrosive to the skin. Causes severe burns.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Ingestion : May cause burns to mouth, throat and stomach.

Potential chronic health effects : **CARCINOGENIC EFFECTS**: Classified A4 (Not classifiable for humans or animals.) by ACGIH, 3 (Not classifiable for humans.) by IARC [propan-2-ol].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

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Medical conditions aggravated by overexposure: : Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Over-exposure signs/symptoms : Severely corrosive to the skin. Severely corrosive to the eyes.

[See toxicological information \(section 11\)](#)

Section 4. First aid measures

Eye Contact : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Skin Contact : Get medical attention immediately. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : Get medical attention immediately. Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Notes to Physician : Not available.

Section 5. Fire fighting measures

Flammability of the product : Combustible.

Auto-ignition Temperature : Not available.

Flash Points : Closed cup: 61 to 93,3°C (141,8 to 199,9°F) [Pensky-Martens.]

Flammable limits : Not available.

Products of combustion : Decomposition products may include the following materials: carbon oxides (CO, CO₂), phosphates

Fire hazards in presence of various substances : Not available.

Explosion hazards in presence of various substances : Not available.

Fire fighting media and instructions : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

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.

Special remarks on fire hazards : No additional remark.

Special remarks on explosion hazards : Not available.

Section 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from alkalis. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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 occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

- Eyes** : Recommended: safety glasses with side shields
- Skin** : Recommended: Work uniform or laboratory coat.
- Respiratory** : Recommended: A respirator is not needed under normal and intended conditions of product use.
- Hands** : >8 hours (breakthrough time): Butyl rubber gloves.
- Other protection** : Not available.

Personal protective equipment (Pictograms)



- Personal protection in case of a large spill** : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

Product Name

Exposure limits

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phosphoric acid	Not available.
ethanedioic acid, dihydrate	Not available.
propan-2-ol	Not available.
Perfume ingredient.	Not available.
gluconic acid, d-	Not available.
castor oil, hydrogenated, ethoxylated	Not available.
Mixture of mineral oils and non-ionic surfactants	Not available.
alcohols, c11-14-iso-, c13-rich, ethoxylated	Not available.

[Consult local authorities for acceptable exposure limits.](#)

Section 9. Physical and chemical properties

Physical State and Appearance	: Liquid.
Color	: Yellowish.
Odor	: Fragrance like.
pH	: <1 [Conc. (% w/w): 100%]
Relative density	: 1.135 g/cm ³
Viscosity	: Not available.
Solubility	: Easily soluble in the following materials: hot water, diethyl ether, acetone. Soluble in the following materials: cold water. Partially soluble in the following materials: methanol.
Flash point	: Closed cup: 61 to 93,3°C (141,8 to 199,9°F) [Pensky-Martens.]
Explosive properties	: Not available.
Oxidizing properties	: Not available.
Physical chemical comments	: Solubility in other solvents: not soluble

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 and metals
Hazardous Decomposition Products	: Reaction with chlorine bleaching agent gives toxic gas (Chlorine)
Hazardous polymerization	: Will not occur.

Section 11. Toxicological information

phosphoric acid	LD50	1530 mg/kg	Oral	Rat
	LD50	2740 mg/kg	Dermal	Rabbit
ethanedioic acid, dihydrate	LD50	7500 mg/kg	Oral	Rat
	LD50	20000 mg/kg	Dermal	Rabbit
propan-2-ol	LDLo	600 mg/kg	Oral	woman
	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LD50	12800 mg/kg	Dermal	Rabbit
	LDLo	1537 mg/kg	Oral	Dog
	LDLo	3570 mg/kg	Oral	human
gluconic acid, d- alcohols, c11-14-iso-, c13-rich, ethoxylated	LD50	2000 mg/kg	Oral	Rat
	LD50	200 to 2000 mg/kg	Oral	Rat
	:			

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- Chronic effects on humans** : **CARCINOGENIC EFFECTS:** Classified A4 (Not classifiable for humans or animals.) by ACGIH, 3 (Not classifiable for humans.) by IARC [propan-2-ol].
Contains material which causes damage to the following organs: kidneys, lungs, mucous membranes, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, nose/sinuses, throat.
- Other toxic effects on humans** : Extremely hazardous by the following route of exposure: of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant).
Very hazardous by the following route of exposure: of ingestion.
Hazardous by the following route of exposure: of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive).
- Special remarks on toxicity to animals** : Not available.
- Special remarks on chronic effects on humans** : Not available.
- Special remarks on other toxic effects on humans** : Not available.
- Specific effects**
- Carcinogenic effects** : No known significant effects or critical hazards.
- Mutagenic effects** : No known significant effects or critical hazards.
- Reproduction toxicity** : No known significant effects or critical hazards.

Section 12. Ecological information






propan-2-ol	FATHEAD MINNOWS (EC50)	96 hour(s)	6550 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l
alcohols, c11-14-iso-, c13-rich, ethoxylated	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
ethanedioic acid, dihydrate	PERCA FLUVIATILIS (EC50)	96 hour(s)	100 to 1000 mg/l
	LEUCISCUS IDUS (EC50)	48 hour(s)	242 mg/l
	DAPHNIA MAGNA (EC50)	48 hour(s)	137 mg/l

- BOD and COD** : Not available.
- Biodegradable/OECD** : Readily biodegradable.
- Mobility** : Not available.
- Products of degradation** : Decomposition products may include the following materials: carbon oxides (CO, CO₂) and water, phosphates.
- Toxicity of the products of biodegradation** : The products of degradation are non-toxic.
- Special remarks on the products of biodegradation** : Not available.

Section 13. Disposal considerations

- Waste information** : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Waste stream** : Not available.
- Consult your local or regional authorities.**

Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	1760	CORROSIVE LIQUID N.O.S. (Phosphoric acid, 20%, mixture), UN 1760, PG III	8	III		Special provisions Limited Quantity for inner packages less than 4 liters Remarks ORM-D / CONSUMER COMMODITY for inner packages less than 4 liters
TDG Classification	1760	CORROSIVE LIQUID N.O.S. (Phosphoric acid, 20%, mixture), UN 1760, PG III (phosphoric acid)	8	III		Special provisions ORM-D / CONSUMER COMMODITY Remarks Limited Quantity
ADR/RID Class	1760	UN 1760, "dangerous goods in limited quantities of class 8", III, ADR (phosphoric acid)	8	III		Hazard identification number 80 Reportable quantity 12 Limited quantity LQ19 Remarks Limited quantity for upto 3 litre inner packing Else; UN 1760, CORROSIVE LIQUID, N.O.S., (Phosphoric acid, mixture), class 8, III, ADR
IMDG Class	1760	"dangerous goods in limited quantities of class 8" UN 1760, PG III (phosphoric acid)	8	III		Emergency schedules (EmS) F-A, S-B Reportable quantity 30 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
IATA-DGR Class	1760	"dangerous goods in limited quantities of class 8" UN 1760, PG III (phosphoric acid)	8	III		-

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Section 15. Regulatory information

WHMIS (Canada) : Class E: Corrosive liquid.
 CEPA DSL: bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-; castor oil, hydrogenated, ethoxylated; aqua; propan-2-ol; alcohols, c11-14-iso-, c13-rich, ethoxylated; ethanedioic acid, dihydrate; phosphoric acid; gluconic acid, d-

International regulations

EINECS : Not available.

DSCL (EEC) : R34- Causes burns.

International lists : Australia (NICNAS): bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-; castor oil, hydrogenated, ethoxylated; aqua; propan-2-ol; alcohols, c11-14-iso-, c13-rich, ethoxylated; ethanedioic acid, dihydrate; phosphoric acid; gluconic acid, d-

China: bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-; castor oil, hydrogenated, ethoxylated; aqua; propan-2-ol; alcohols, c11-14-iso-, c13-rich, ethoxylated; ethanedioic acid, dihydrate; phosphoric acid; gluconic acid, d-

Germany water class: bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-; propan-2-ol; ethanedioic acid, dihydrate; phosphoric acid

Japan (METI): bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-; castor oil, hydrogenated, ethoxylated; aqua; propan-2-ol; ethanedioic acid, dihydrate; phosphoric acid; gluconic acid, d-

Japan (MOL): propan-2-ol

Korea (TCCL): bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-; castor oil, hydrogenated, ethoxylated; aqua; propan-2-ol; alcohols, c11-14-iso-, c13-rich, ethoxylated; ethanedioic acid, dihydrate; phosphoric acid; gluconic acid, d-

Philippines (RA6969): bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-; castor oil, hydrogenated, ethoxylated; aqua; propan-2-ol; alcohols, c11-14-iso-, c13-rich, ethoxylated; ethanedioic acid, dihydrate; phosphoric acid; gluconic acid, d-

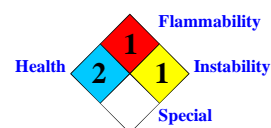
Section 16. Other information

Label Requirements : Causes burns. Dangerous fumes form when mixed with other products.

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

Health	*	2
Fire hazard		1
Reactivity		1
Personal protection		B

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



References : Not available.

Other special considerations : Not available.

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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.