

SAFETY DATA SHEET

Spot stain remover for quarry and terra cotta tiles, brick, concrete etc.

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

Identification of the substance or preparation

Product name : **Spot stain remover for quarry and terra cotta tiles, brick, concrete etc.**
Product use : Cleans oil, grease, fat and other stubborn stains from a variety of surfaces such as quarry and terra cotta tiles, brick, natural stone, 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 : Netherlands
Emergency telephone number : ----

2. Composition/information on ingredients

Substance/preparation	: Preparation			
Ingredient name	CAS number	EC Number	%	Classification
Europe				
Naphta (petroleum) low boiling naphta unspecified	64742-95-6	265-199-0	15-30	R10 Xn; R65 Xi; R37 R66, 67 N; R51/53
1,2,4-Trimethylbenzene	95-63-6	202-436-9	5-15	R10 Xn; R20 Xi; R36/37/38 N; R51/53
Mesitylene	108-67-8	203-604-4	1-5	R10 Xi; R37 N; R51/53
propan-2-ol	67-63-0	200-661-7	1-5	F; R11 Xi; R36 R67
propylbenzene	103-65-1	203-132-9	1-5	R10 Xn; R65 Xi; R37 N; R51/53
diphosphoric acid, tetrapotassium salt	7320-34-5	230-785-7	1-5	Xi; R36
alcohols, c12-18, ethoxylated	68213-23-0	500-201-8	1-5	Xn; R22 Xi; R41 N; R50
poly(oxy-1,2-ethanediyl), .alpha..alpha.'-(9-octadecenylimino)di-2,1-ethanediyl]bi (z)-	26635-93-8	500-048-7	1-5	Xn; R22 Xi; R38, 41
benzenesulfonic acid, c10-16-alkyl derivs.	68584-22-5	287-494-3	1-5	Xn; R22

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poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-c12-14-alkyl ethers, sodium salts	68891-38-3	500-234-8	1-5	C; R34 Xi; R38, 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	: R10 Xn; R65 Xi; R36/37 R66, 67 N; R51/53
Physical/chemical hazards	: Flammable.
Human health hazards	: Irritating to eyes and respiratory system. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Environmental hazards	: Toxic 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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention immediately.
Ingestion	: If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed- can enter lungs and cause damage. Obtain medical attention.
Skin Contact	: Wash with soap and water. Get medical attention if irritation develops.
Eye contact	: In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

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

5. Fire-fighting measures

Extinguishing media	: Use foam or all-purpose dry chemicals to extinguish. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special exposure hazards	: Flammable liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Not available.
Hazardous thermal decomposition products	: These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), sulphur oxides (SO ₂ , SO ₃ , etc.), phosphates. Some metallic oxides.
Special protective equipment for fire-fighters	: Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

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6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilled material.
- Environmental precautions and clean-up methods** : Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
- If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate 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** : Aspiration hazard if swallowed- can enter lungs and cause damage. Do not ingest. If ingested do not induce vomiting. Avoid contact with eyes. Keep container closed. Use only with adequate ventilation. Avoid breathing vapour or mist. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Avoid contact of spilled material and runoff with soil and surface waterways. Wash thoroughly after handling.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
- Packaging materials Recommended** : Use original container.

8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> 1,2,4-Trimethylbenzene	EH40-OES (United Kingdom (UK), 2002). Notes: TWA: 125 mg/m ³ 8 hour(s). TWA: 25 ppm 8 hour(s).
Mesitylene	EH40-OES (United Kingdom (UK), 2002). Notes: TWA: 125 mg/m ³ 8 hour(s). TWA: 25 ppm 8 hour(s).
propan-2-ol	EH40-OES (United Kingdom (UK), 2002). Notes: STEL: 1250 mg/m ³ 15 minute(s). STEL: 500 ppm 15 minute(s). TWA: 999 mg/m ³ 8 hour(s). TWA: 400 ppm 8 hour(s)

- Exposure controls**
- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : Use an approved, properly fitted, powered-air purifying respirator or respirator of equivalent or greater protection.
- Hand protection** : Use latex gloves.
- Eye protection** : Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.
- Skin protection** : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits).

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9. Physical and chemical properties

General information

Appearance
Physical state : Liquid. (Opalescente)
Colour : White. Yellow. (Light.)
Odour : Solvent.

Important health, safety and environmental information

pH : 8.6 [Basic.]
Melting point : May start to solidify at 21°C (69.8°F) based on data for: alcohols, c12-18, ethoxylated. Weighted average: -19.45°C (-3°F)
Boiling point : The lowest known value is 82°C (179.6°F) (propan-2-ol). Weighted average: 119.26°C (246.7°F)
Flash point : Closed cup: 48°C (118.4°F).(Pensky-Martens.) Open cup: 48°C (118.4°F)
Flammability (solid, gas) : Not applicable.
Explosive properties : 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.
Explosion Limits : The greatest known range is Lower: 2% Upper: 13% (propan-2-ol)
Oxidising properties : Not applicable
Relative density : 0.946 g/cm³
Solubility : Easily soluble in hot water, diethyl ether, acetone. Soluble in cold water.
Evaporation rate (butyl acetate = 1) : The highest known value is 1.7 (propan-2-ol) Weighted average: 0.46 compared to Butyl acetate.

Other information

Auto-ignition temperature : The lowest known value is 280°C (536°F) (benzenesulfonic acid, c10-16-alkyl derivs.).

10. Stability and reactivity

Stability : Stable under recommended storage and handling conditions (see section 7).
Conditions to Avoid : Keep from any possible contact with water. (propan-2-ol)
Materials to avoid : Highly reactive with OXIDISING AGENTS. Reactive with alkalis.
Hazardous Decomposition Products : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulphur oxides (SO₂, SO₃, etc.), phosphates. Some metallic oxides.

11. Toxicological information

Potential acute health effects

Inhalation : Practically non-toxic by inhalation. Irritating to respiratory system.
Ingestion : Aspiration hazard if swallowed- can enter lungs and cause damage.
Skin Contact : Slightly irritating to the skin.
Eye contact : Irritating to eyes.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
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Naphta (petroleum) low boiling	LD50	8400 mg/kg	Oral	Rat
naphta unspecified	LD50	>2150 mg/kg	Oral	quail
propan-2-ol	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
	LDLo	5272 mg/kg	Oral	man
propylbenzene	LD50	6040 mg/kg	Oral	Rat
diphosphoric acid, tetrapotassium salt	LD50	>2000 mg/kg	Oral	Rat
	LD50	>4640 mg/kg	Dermal	Rabbit
	LDLo	4640 mg/kg	Oral	Rat
alcohols, c12-18, ethoxylated	LD50	2500 to 5000 mg/kg	Oral	Rat
	LD50	>5000 mg/kg	Dermal	Rabbit
benzenesulfonic acid, c10-16-alkyl derivs.	LD50	1150 mg/kg	Oral	Rat

Over-exposure signs/symptoms

Target organs : Contains material which causes damage to the following organs: blood, 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>
1,2,4-Trimethylbenzene	Pimephales promelas (LC50)	96 hour(s)	7.72 mg/l
Mesitylene	Scenedesmus subspicatus (EC50)	48 hour(s)	25 mg/l
	Scenedesmus subspicatus (EC50)	48 hour(s)	53 mg/l
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
propylbenzene	Oncorhynchus mykiss (LC50)	96 hour(s)	1.55 mg/l
diphosphoric acid, tetrapotassium salt	Fish (LC50)	48 hour(s)	>750 mg/l
alcohols, c12-18, ethoxylated	Daphnia (EC50)	48 hour(s)	0.75 to 1.2 mg/l
	Regenboogforel (LC50)	96 hour(s)	1.8 mg/l
poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(9-octadecenylimino)di-2(z)-	Oncorhynchus mykiss	96 hour(s)	0.18 mg/l
	DAPHNIA MAGNA (EC50)	48 hour(s)	0.49 mg/l
	Nitrificerende bacteriën	4 hour(s)	190 mg/l
benzenesulfonic acid, c10-16-alkyl derivs.	Aquatic Invertebrates. (EC50)	48 hour(s)	1 to 10 mg/l
	Fauna. (EC50)	72 hour(s)	10 to 100 mg/l
	Brachydanio Rerio (LC50)	96 hour(s)	1 to 10 mg/l

Mobility :

Other adverse effects : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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13. Disposal considerations

- Methods of disposal** : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.
- Waste classification** : Not applicable.
- European waste catalogue (EWC)** : 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	3295	UN 3295, "dangerous goods in limited quantities of class 3", III, ADR (1,2,4-Trimethylbenzene, Mesitylene)	3	III		<p>Hazard identification number 30</p> <p>Reportable quantity 45</p> <p>Remarks Limited quantity for upto 5 litre inner packing Else; UN 3295, HYDROCARBON LIQUID, N.O.S., (Aromatic hydrocarbons, mixture), class 3, III, ADR</p>
ADN Class	3295	UN 3295, "dangerous goods in limited quantities of class 3", III, ADN (1,2,4-Trimethylbenzene, Mesitylene)	3	III		<p>RQ (Reportable quantity) ADN 45</p> <p>Remarks Limited quantity for upto 5 litre inner packing Else; UN 3295, HYDROCARBON LIQUID, N.O.S., (Aromatic hydrocarbons, mixture), class 3, III, ADN</p>
IMDG Class	3295	"dangerous goods in limited quantities of class 3" UN 3295, PG III (1,2,4-Trimethylbenzene, Mesitylene). Marine pollutant (alcohols, c12-18, ethoxylated, poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-(9-octade	3	III		<p>Emergency schedules (EmS) 3-07</p> <p>Marine pollutant Marine pollutant (P)</p>

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		(z)-				Reportable quantity 30 Remarks Limited quantity for upto 5 litre inner packing Else; HYDROCARBON LIQUID, N.O.S., (Aromatic hydrocarbons, 43%, mixture), class 3, UN 3295, PG III, (+48°C c.c.)
IATA-DGR Class	3295	"dangerous goods in limited quantities of class 3" UN 3295, PG III (1,2,4-Trimethylbenzene, Mesitylene)	3	III		Remarks Else; HYDROCARBON LIQUID, N.O.S., (Aromatic hydrocarbons, 43%, mixture), class 3, UN 3295, PG III, (+48°C c.c.)

15. Regulatory information

EU Regulations

Hazard symbol(s)



Harmful, Dangerous for the environment

Risk phrases

- : R10- Flammable.
- R65- Harmful: may cause lung damage if swallowed.
- R36/37- Irritating to eyes and respiratory system.
- R66- Repeated exposure may cause skin dryness or cracking.
- R67- Vapours may cause drowsiness and dizziness.
- R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

- : S2- Keep 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.
- S29- Do not empty into drains.
- S43- In case of fire, use Powder. Sand. CO2.
- S62- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- S64- If swallowed, rinse mouth with water (only if the person is conscious).

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.

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EC Statistical classification : 32089091
(Tariff Code)

16. Other information

Full text of R phrases referred to in sections 2 and 3 - Europe :

- R11- Highly flammable.
- R10- Flammable.
- R20- Harmful by inhalation.
- R22- Harmful if swallowed.
- R65- Harmful: may cause lung damage if swallowed.
- R34- Causes burns.
- R36- Irritating to eyes.
- R36/37- Irritating to eyes and respiratory system.
- R36/37/38- Irritating to eyes, respiratory system and skin.
- R37- Irritating to respiratory system.
- R38- Irritating to skin.
- R41- Risk of serious damage to eyes.
- R66- Repeated exposure may cause skin dryness or cracking.
- R67- Vapours may cause drowsiness and dizziness.
- R50- Very toxic to aquatic organisms.
- R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 - Europe :

- F - Highly flammable
- C - Corrosive
- Xn - Harmful
- Xi - Irritant
- N - Dangerous for the environment.

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Notice to reader

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