

Safety Data Sheet

Villafix - Porcelain Grout Remover

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

- 1.1. Product identifier Villafix - Porcelain Grout Remover
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Porcelain Grout Remover
- 1.3. Details of the supplier of the safety data sheet
Stone Paving Supplies Ltd
6 Cinder Lane,
Barrow Bridge, Bolton BL1 7LZ
Telephone: 0333 600 4567
E-mail address: sales@stonepavingsupplies.co.uk
- 1.4. Emergency telephone number Mon-Fri (8:30 – 17:00): 0333 600 4567

2. Hazards identification.

2.1. Classification of the substance or mixture:

The product is classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication: Met. Corr. 1: H290
Eye Dam. 1: H318
GHS05

2.2. Label elements (EC) No. 1272/2008:

Warning symbols:



Signal Word: Danger

Hazard Statement/s (H): H290 – May be corrosive to metals.
H318 – Causes serious eye damage.

Precautionary Statement/s (P): P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P234 Keep only in original container.
P262: Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

2.3. Other hazards: For Results of PBT and vPvB assessment see section 12.5.

3. Composition/information on ingredients.

3.1. Substances: Information not relevant.

3.2. Mixtures.

Contains:

HYDROCHLORIC ACID

CAS	EC Number	CLP Classification	Percent
7647-01-0	231-595-7	Met. Corr.1 – H290 Skin Corr.1A – H314 Eye Dam.1 – H318 STOT SE3 – H335	1 – 10 %

4. First aid measures

4.1. Description of first aid measures

General information:

Remove soiled or soaked clothing immediately. Ensure that the First Aid Personnel are aware of the product involved and take precautions to protect themselves (e.g., wear personal protection equipment).

After inhalation:

Remove to fresh air. If symptoms persist, call a physician.

After contact with skin

In case of contact with skin wash off with soap and water. If skin irritation persists, call a physician.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an eye specialist immediately.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed.

Symptoms:

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

Hazards:

Health injuries are not known or expected under normal use. See Section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

Treat symptomatically.

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5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING MEDIA:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS:

High volume water jet.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE:

Contact with metals liberates hydrogen gas. In case of fire hazardous decomposition products may be produced such as: Hydrogen chloride gas.

5.3. Advice for fire fighters.

GENERAL INFORMATION:

Use extinguishing media appropriate for surrounding fire.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

Wear full protective clothing and breathing apparatus if there is a risk of exposure to smoke or fumes from other source.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder)

When picked up, treat material as prescribed under heading "Disposal".

6.4. Reference to other sections

Additional information

Small spills should present no problem. For information regarding Safe Handling, see chapter 7. For information regarding personal protective measures, see chapter 8. For information regarding Waste Disposal, see chapter 13.

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7. Handling and storage.

- | | |
|--|--|
| 7.1. Precautions for safe handling: | Keep container tightly closed. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. |
| 7.2. Conditions for safe storage, including any incompatibilities. | Store in original container. Keep tightly closed in a dry and cool place. Keep away from food, drink and animal feedingstuffs. Keep away from metals. Unsuitable materials for containers: Metals |
| 7.3. Specific end use(s): | Information not available. Refer to product label. |

8. Exposure controls/personal protection

8.1. Information not available

Component:	Hydrochloric Acid	CAS-No. 7647-01-0
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)		

DNEL : 15 mg/m3
Workers, Acute - local effects, Inhalation

DNEL : 8 mg/m3
Workers, Long-term - local effects, Inhalation

Predicted No Effect Concentration (PNEC)

Fresh water : 36 µg/l

Marine Water : 36 µg/l

Intermittent releases : 45 µg/l

Sewage treatment plant (STP) : 36 µg/l

Fresh water sediment :
Exposition is not expected.

Marine sediment :
Exposition is not expected.

Soil :
Exposition is not expected.

Other Occupational Exposure Limit Values

UK. EH40 Workplace Exposure Limits (WELs), Short Term Exposure Limit (STEL);, Gas and aerosol mists.
5 ppm, 8 mg/m3

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UK. EH40 Workplace Exposure Limits (WELs), Time Weighted Average (TWA):, Gas and aerosol mists.

1 ppm, 2 mg/m³

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, Time Weighted Average (TWA):

5 ppm, 8 mg/m³

Indicative

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, Short Term Exposure Limit (STEL):

10 ppm, 15 mg/m³

Indicative

ELV (IE), Short Term Exposure Limit (STEL):

10 ppm, 15 mg/m³

Indicative OELV

ELV (IE), Time Weighted Average (TWA):

5 ppm, 8 mg/m³

Indicative OELV

8.2. Exposure controls.

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice: Required, if exposure limit is exceeded (e.g. OEL). Respiratory protection complying with EN 141. Recommended Filter type: Combination filter:B-P2

Hand protection

Advice: Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear.

Material: Natural Rubber

Break through time: > 480 min

Glove thickness: 0.5 mm

Material: polychloroprene

Break through time: > 480 min

Glove thickness: 0.5 mm

Material: Nitrile rubber

Break through time: > 480 min

Glove thickness: 0.35 mm

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Material: butyl-rubber
Break through time: > 480 min
Glove thickness: 0.5 mm

Material: Fluorinated rubber
Break through time: > 480 min
Glove thickness: 0.4 mm

Material: Polyvinylchloride
Break through time: > 480 min
Glove thickness: 0.5 mm

Eye protection

Advice: Safety goggles

Skin and body protection

Advice: Protective work clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.
If material reaches soil inform authorities responsible for such cases.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid.
Form: Liquid.
Colour: Off-yellow.
Odour: Stinging.
Ph (at 20 °C): < 2
Miscibility with water: Miscible.
Solubility/qualitative: Not tested.

9.2. Other information

Corrosion to metals: Corrosive to metals

10. Stability and reactivity.

10.1. Reactivity: No decomposition if stored and applied as directed.
10.2. Chemical stability: The product is stable in normal conditions of use and storage.
10.3. Possibility of hazardous reactions: Gives off hydrogen by reaction with metals.
10.4. Conditions to avoid: Protect from frost, heat and sunlight.
Thermal decomposition: Heating can release hazardous gases.
10.5. Incompatible materials: Metals, oxidising agents, reducing agents, ammonia
10.6. Hazardous decomposition products: In case of fire hazardous decomposition products may be produced such as: Hydrogen chloride gas.

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11. Toxicological information.

11.1. Information on toxicological effects

Data for the product

Acute toxicity

Oral

: Not classified based on the calculation method according to CLP regulation.

Inhalation

: Not classified based on the calculation method according to CLP regulation.

Dermal

: Not classified based on the calculation method according to CLP regulation.

Irritation

Skin

Result : Not classified based on the calculation method according to CLP regulation.

Eyes

Result : Classified based on the calculation method according to CLP regulation.

Sensitisation

Result : Not classified based on the calculation method according to CLP regulation.

CMR effects

CMR Properties

Carcinogenicity : Not classified based on the calculation method according to CLP regulation.

Mutagenicity : Not classified based on the calculation method according to CLP regulation.

Teratogenicity : Not classified based on the calculation method according to CLP regulation.

Reproductive toxicity : Not classified based on the calculation method according to CLP regulation.

Specific Target Organ Toxicity

Single exposure

Remarks : Not classified based on the calculation method according to CLP regulation.

Repeated exposure

Remarks : Not classified based on the calculation method according to CLP regulation.

Other toxic properties

Repeated dose toxicity

: No data available

Aspiration hazard

: Not applicable

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Component	Hydrochloric Acid	CAS-No. 7647-1-0
Acute toxicity		
Oral		
LD50	:	2222 mg/kg (Rat) (Calculation method)
LC50	:	45.6 mg/l (Rat, male; 5 min) (No guideline followed)
LD50 Dermal	:	> 5010 mg/kg (Rabbit) 31.5 % solution
Irritation		
Skin		
Result	:	corrosive effects (Rabbit; 1 - 4 h) (OECD Test Guideline 404)
Eyes		
Result	:	Causes serious eye damage. (Rabbit) (OECD Test Guideline 405)
Sensitisation		
Result	:	not sensitizing (Guinea pig) (Maximisation Test)
CMR effects		
CMR Properties		
Carcinogenicity	:	Did not show carcinogenic effects in animal experiments.
Mutagenicity	:	In vitro tests did not show mutagenic effects
Teratogenicity	:	No valid data available.
Reproductive toxicity	:	Animal testing did not show any effects on fertility.
Genotoxicity in vitro		
Result	:	negative (Ames test; Salmonella typhimurium; with and without metabolic activation) negative (Cytogenetic test; Mouse; with and without metabolic activation)
Specific Target Organ Toxicity		
Single exposure		
Inhalation	:	Target Organs: Respiratory system May cause respiratory irritation.
Repeated exposure		
Remarks	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Other toxic properties		
Repeated dose toxicity		
NOAEC	:	15 mg/m ³ (Rat)(Inhalation)
Aspiration hazard		
	:	Not applicable.

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12. Ecological information.

12.1. Toxicity:

Component	Hydrochloric Acid	CAS-No. 7647-1-0
Acute toxicity		
Fish		
LD50	:	20.5 mg/l (Lepomis macrochirus; 24 h)
Toxicity to daphnia and other aquatic invertebrates		
EC50	:	0.45 mg/l (Daphnia magna; 48 h) (OECD Test Guideline 202)
algae		
ErC50	:	0.73 mg/l (Chlorella vulgaris (Fresh water algae); 72 h) (End point: Growth rate; OECD Test Guideline 201)
Bacteria		
EC50	:	0.23 mg/l (activated sludge; 3 h) (End point: Respiration inhibition; OECD Test Guideline 209)
M-Factor		
M-Factor (Acute Aquat. Tox.)	:	1

12.2. Persistence and degradability:

The product is water soluble. The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bio accumulative potential:

The product does not contain any substances expected to be bio accumulating.

12.4. Mobility:

Miscible in water.

12.5. Results of PBT and vPvB assessment:

Not identified as a PBT and vPvB.

12.6. Other adverse effects:

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

13. Disposal considerations

13.1. Waste treatment methods

Product:

Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

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14. Transport information

14.1. UN number:	1789
14.2. UN proper shipping name	
ADR:	HYDROCHLORIC ACID
RID:	HYDROCHLORIC ACID
IMDG:	HYDROCHLORIC ACID
14.3. Transport hazard class(es)	
ADR-Class:	8
(Labels; Classification Code; Hazard identification No; Tunnel restriction code):	8; C1; 80; (E)
RID-Class:	8
(Labels; Classification Code; Hazard identification No):	8; C1; 80
IMDG-Class:	8
(Labels; EmS):	8; F-A, S-B
14.4. Packaging group	
ADR:	III
RID:	III
IMDG:	III
14.5. Environmental hazards	
Environmentally hazardous according to ADR:	no
Environmentally hazardous according to RID:	no
Marine Pollutant according to IMDG-Code:	no
14.6. Special precautions for user	
Not applicable.	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
IMDG:	Not applicable.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Other regulations:	Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.
15.2. Chemical safety assessment:	No chemical safety assessment has been processed for the mixture.

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16. Other information

Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, Bio accumulative, Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
STOT	specific target organ toxicity
UVCB	substance of unknown or variable composition, complex reaction
vPvB	very Persistent and very Bio accumulative

The data is based on the current state of our knowledge and are intended to describe the product regarding the requirements of safety. The data should not be taken to imply any guarantee of a general or specific specification. It is the responsibility of the user of the product to ensure to their satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.