SAFETY DATA SHEET

Grout Haze Plus

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Grout Haze Plus

1.2 Relevant identified uses of the substance or mixture and uses advised against
Mild acid-based detergent for the cleaning of porcelain and tile surfaces

1.3 Details of the supplier of the safety data sheet
All for Stone Ltd
4 Gardd Yr Gwanwyn
Northrop Hall
Mold
Flintshire
CH7 6GA
Mold, Wales, U.K.
Tel: + 44 (0)1244 819939

1.4 Emergency telephone number

Tel. + 44 (0)1244 819939 (normal working hours)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification in accordance with the Dangerous Preparations Directive 1999/45/EC
Corrosive; R34 Causes burns

2.2 Label elements

Labelling in accordance with the Dangerous Preparations Directive 1999/45/EC

Corrosive

R34 Causes burns
S1/2 - keep locked up and out of reach of children
S26 - in case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 - in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

2.3 Other hazards
Contact with skin, eyes and mouth may cause skin burns and permanent eye damage. Vapours and spray will be irritating to the nose and throat.
There are no known long-term health effects resulting from exposure.
The product is not classified as Dangerous to the Environment, although due to the acidic nature of the product and presence of wetting agents, care should be taken to avoid loss to the environment.

SECTION 3: Composition

3.1 Substances
Not applicable, product is a mixture.

3.2 Mixtures
An aqueous solution of phosphoric acid and wetting agent.

Name	CAS No	Concentration	Classification
Phosphoric Acid	7664-38-2	20%	C; R34 Skin Corr. 1B H314
Alcohols, C9-11, ethoxylated	68439-46-3	<3%	Xi R36/38 ,
2-(2-butoxyethoxy)ethanol	203-961-6	<3%	Xi R36

See section 16 for full description of R phrases and H Statements.

SECTION 4: First Aid Measures

4.1 Description of first aid measures
EYE CONTACT: Wash thoroughly with large quantities of water for 15 minutes whilst holding the eyelids open. Seek immediate medical attention.
INHALATION: Remove from exposure. If breathing becomes difficult call a doctor.
SKIN CONTACT: Wash off immediately with plenty of water. Remove contaminated clothing. Seek medical attention.
INGESTION: If swallowed, rinse mouth with water and give a glass of water (200-300 ml) to drink. Do not induce vomiting. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed
EYE CONTACT: Pain, redness, burns.
INHALATION: Runny nose, cough, sore throat.
SKIN CONTACT: Redness, irritation, stinging, burns.
INGESTION: Pain, stinging, burns to mouth and throat, nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatments needed
Symptomatic treatment as required.

SECTION 5: Firefighting Measures

5.1 Extinguishing media
Not flammable. Not known to react with any extinguishing material. Use extinguisher appropriate to surrounding conditions.

5.2 Special hazards arising from the substance or mixture
If involved in a fire and heated to decomposition, may release fumes of phosphorous oxides. May react with common metals to release hydrogen gas.

5.3 Advice for fire fighters
Fire fighters should wear chemical protective clothing and breathing apparatus as appropriate.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing including overall, gloves and eye protection to prevent skin and eye contact. Open doors and windows to ensure good ventilation. Spillage area may be very slippery.

6.2 Environmental precautions
Prevent spilled material or washings entering water courses or storm-water drainage systems. Diluted product and washings may be discharged into foul-water systems leading to waste water treatment plants.

6.3 Methods and materials for containment and clearing up
Small spills (<1 litre) may be absorbed with paper towels.
Large spills (> 1 litre) should be covered with a suitable absorbent, e.g. sand, earth or spill granules and collected for disposal. Label containers for disposal.
Wash spill area thoroughly to remove residues.

6.4 References to other sections
See section 8 and 13 for further advice.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Avoid contact with eyes and skin. Wear suitable protective clothing. Do not spray or create mists.

7.2 Conditions for safe storage, including any incompatibilities
Store in its original labelled container in a cool, well ventilated area, away from heat, sparks and other sources of ignition. Avoid low temperatures. Not to be stored next to foodstuffs and water supplies. Keep out of reach of children and animals.

7.3 Specific end uses(s)
No special precautions.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters

Substance	Long-term exposure limit (8-hr TWA reference period)	Short-term exposure limit (15 minute reference period)	Source
Orthophosphoric acid 7664-38-2	1 mg/m^3	2 mg/m^3	EH40-2011

8.2 Exposure controls
Normal chemical handling procedures should be observed. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling, Ensure adequate ventilation.

Respiratory protection
Not usually required. Use in well ventilated areas and avoid formation of spray or aerosols.

Hand Protection
Suitable chemical resistant gloves recommended for use with surfactants should be worn. Nitrile, PVC and rubber may be suitable but glove manufacturer recommendations should always be checked. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection
Eye protection meeting the requirements of BS EN166 3 (splash proof goggles), must be worn when handling this product.

Skin protection
Coveralls recommended. These should be changed after use or if contaminated. Wash before re-use.

Environmental exposure controls
When handling small quantities (less than 5 litres), no special precautions required. If handling bulk material, precautions should be taken to avoid accidental release to water courses.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Clear pale liquid
Odour:	Slight
Odour threshold:	No data
pH:	< 1.00
Melting point:	Similar to water
Boiling point:	Similar to water
Flashpoint:	Not flammable
Evaporation rate:	Similar to water
Flammability:	Not flammable
Upper/lower flammability limits:	Not flammable
Vapour pressure:	Similar to water
Vapour density	Not known
Relative density	1.09 at 15°C
Solubility in water:	**C**ompletely soluble
Solubility in other solvents:	No data
Partition coefficient (log Kow)	-No data
Autoignition temperature	No data
Decomposition temperature	No data
Viscosity	No data
Explosive properties	Not considered to be explosive
Oxidising properties	Not considered to be oxidising

9.2 Other information
None

SECTION 10: Stability and Reactivity

10.1 Reactivity
Not considered to be dangerously reactive.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
May react with metals to release highly flammable hydrogen gas.
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Avoid exposure to high and freezing temperatures.

10.5 Incompatible materials
Avoid contact with alkalis, sulphites, sulphides and metals.

10.6 Hazardous decomposition products
May release fumes of phosphorous oxides if heated to decomposition.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

(a) acute toxicity	This product is not considered to be acutely toxic. Acute effects will be due to the corrosive nature of the product.
(b) skin corrosion/irritation	Considered corrosive to skin due to pH and presence of wetting agents.
(c) serious eye damage/irritation	May cause severe damage to eyes due to pH and presence of wetting agents.
(d) respiratory/skin sensitisation	Contains no sensitisers above thresholds of concern.
(e) germ cell mutagenicity	None of the components have been identified as germ cell mutagens.
(f) carcinogenicity	None of the components have been identified as carcinogens.
(g) reproductive toxicity	None of the components have been identified as reproductive toxins.
(h) STOT-single exposure	None of the components have been identified as causing damage to organs. Inhalation of vapours or spray may cause transient respiratory irritation.
(i) STOT-repeated exposure	None of the components have been identified as presenting a systemic target organ hazard.
(j) aspiration hazard	Not considered to present an aspiration hazard.

SECTION 12: Ecological Information

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

12.1 Toxicity
There are no components present at concentrations that will cause the preparation to be classified as Dangerous to the Environment.

12.2 Persistence and degradability
The organic components are all readily biodegradable and are not expected to persist in the environment.

12.3 Bioaccumulative potential
None of the components are considered to be bioaccumulative.

12.4 Mobility in soil
All components are water soluble and are expected to partition in the aqueous compartment.

12.5 Results of PBT and vPvB assessment
None of the components are known to be PBT or vPvB.

12.6 Other adverse effects
Adverse effects may occur if released into the environment in large quantities due to the effect of the product on the pH of receiving waters. This effect will be rapidly diminished on dilution.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods
It is recommended to dispose of small quantities of this material (< 1 litres) by flushing with a large excess of water to foul sewer. A dilution factor of 100 is recommended. Do not flush directly into storm drains and

watercourses. Larger quantities of waste should be treated as hazardous chemical waste in a manner that complies with local regulations. Advice should be sought from local agencies.

The containers should be rinsed thoroughly with water and can be disposed of as non-hazardous waste.

SECTION 14: Transport Information

This product is classified as dangerous for transport.

14.1	UN Number	3264
14.2	UN Proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (contains phosphoric acid)
14.3	Transport hazard class(es)	8
14.4	Packing group	III
14.5	Environmental hazards	No
14.6	Special precautions for user	None
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not transported in bulk

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
All components are listed as existing substances in Europe.

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information

Revision information:
New SDS

List of Abbreviations used in this SDS:

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation (EC) no 1272/2008
DSD	Dangerous Substances Directive 67/548/EEC
DPD	Dangerous Preparations Directive 1999/45/EC
EC	European Community/Commission
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
vPvB	very Persistent, very Bioaccumulative

References:
CLP Regulation 1272/2008
EH40, 2011
Suppliers MSDS

Method used for classification of mixtures:
Calculation and expert judgment based approaches

R Phrases and H Statements used in Section 3:

R11	Highly flammable
R22	Harmful if swallowed
R34	Causes burns
R36/37	Irritating to eyes and respiratory system
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms

H225 Highly flammable liquid and vapour

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life

Training requirements for workers
No special training requirements.