

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

1.1 Product Identifier

Product Form : Mixture
Product Name : GROUT WIZARD
Product Code : GW-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Acid Cleaner

1.3 Details of the supplier of the safety data sheet

Twi-Laq Industries, Inc.
1345 Seneca Avenue
Bronx, NY 10474
T (718) 638-5860

1.4 Emergency telephone number

Emergency number : CHEM-TREC 1-800-424-9300

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification (GHS-US)

Skin Corr. 1A H314

2.2 Label Elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05



GHS07

Signal Word (GHS-US) :

DANGER

Hazard Statements (GHS-US)

: H314 - Causes severe burns and eye damage

Precautionary statements (GHS-US)

: P260 - Do not breathe dust/mist/spray
P264 - Wash hands and forearms thoroughly after handling
P280 - Wear Protective gloves/eye protection/face protection
P301+P330+P331 - If swallowed: rinse mouth. DO NOT induce vomiting
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled; Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center/doctor
P321 - Specific treatment (see first aid measures on this label)
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other Hazards

No additional information available

2.4 Unknown Acute Toxicity

No Data Available

SECTION 3: Composition / Information on Ingredients

3.1 Substance

Not Applicable

3.2 Mixture

Name	Product Identifier	%	Classification (GHS-US)
Phosphoric acid, conc=85%	(CAS No.) 7664-38-2	15 - 25	Skin Corr. 1B, H314
2-butoxyethanol	(CAS No.) 111-76-2	1 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:gas), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Proprietary Surfactant	N/A	< 3	Flam. Liq. 4, H225 Eye Irrit. 2A, H319 STOT SE3, H336

GROUT WIZARD

Safety Data Sheet

according to Federal Register / Col. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 4: First Aid Measures

4.1 Description of First Aid measures

First Aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show label where possible)
First Aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
First Aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First Aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First Aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms / injuries	: Causes severe skin burns and eye damage.
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4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable extinguishing media	: Foam. Dry powder. Carbon Dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream

5.2 Special hazards arising from the substance or mixture

Reactivity	: Thermal decomposition generates: Corrosive vapors.
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5.3 Advice for firefighters

Firefighting Instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency Procedures	: Evacuate unnecessary personnel
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6.1.2 For emergency responders

Protective Equipment	: Equip cleanup crew with proper protection
Emergency Procedures	: Ventilate area

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up.	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe dust/mist/spray. Avoid contact during pregnancy/while nursing
Hygiene measures	: Wash hands and forearms thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use
Incompatible products	: Strong bases. Strong acids.
Incompatible Materials	: Sources of ignition. Direct sunlight.

7.3 Specific end use(s)

No additional information available

GROUT WIZARD

Safety Data Sheet

according to Federal Register / Col. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8: Exposure controls / personal protection

8.1 Exposure controls

Personal Protective Equipment : Avoid all unnecessary exposure
Hand Protection : Chemical resistant protective gloves
Eye Protection : Chemical goggles or face shield
Foot Protection : Wear suitable work boots
Skin and Body Protection : Wear suitable protective clothing
Respiratory Protection : Wear appropriate mask.
Other Information : Do not eat, drink or smoke during use.

8.2 Control parameters

Occupational Exposure Limits : None Established

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
phosphoric acid (CAS No.) 7664-38-2)	STEL: 3mg/m ³ TWA: 1mg/m ³	TWA: 1mg/m ³ (vacated) TWA: 1mg/m ³ (vacated) STEL: 3mg/m ³	IDLH: 1000mg/m ³ TWA: 1mg/m ³ STEL: 3mg/m ³

Engineering Controls : Provide good general ventilation. If work practices generate dust/fumes, gas, vapors, or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Liquid
Color : Blue
Odor : Mild
Odor threshold : No data available
pH : 2
Relative evaporation rate (butyl acetate=) : No data available
Melting Point : No data available
Freezing Point : No data available
Boiling Point : Approx 212°F
Flash Point : ≥ 200°F
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor Pressure : No data available
Relative vapor density @ 20°C : No data available
Relative density : 1.03
Solubility : Soluble in Water
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive Properties : No data available
Oxidizing Properties : No data available
Explosive Limits : No data available

9.2 Other Information

No additional information available.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Thermal decomposition generates: Corrosive vapors.

10.2 Chemical Stability

Stable under normal Conditions

10.3 Possibility of hazardous reactions

Not established

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5 Incompatible materials

Strong Acids. Strong bases.

10.6 Hazardous decomposition products

Fume. Carbon Monoxide. Carbon Dioxide. Thermal decomposition generates: Corrosive vapors.

GROUT WIZARD

Safety Data Sheet

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SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity : Not classified

2-butoxyethanol (111-76-2)	
LD50 oral rat	530 mg/kg (Rat; equivalent or similar to OECD 401; Literature study; 1746 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	>2000 mg/kg body weight (Rat experimental val; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	435 mg/kg body weight (Rabbit; Experimental val; OECD 402: Acute Dermal Toxicity; 435 mg/kg bodyweight; Rabbit; Wgt of evidence; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	450 - 486 ppm/4h 450 - 486, Rat
ATE US (oral)	530.00 mg/kg body weight
ATE US (dermal)	435.00 mg/kg body weight
ATE US (gases)	450.00 ppmV/4h
ATE US (vapors)	2.17 mg/l/4h
ATE US (dust, mist)	2.17 mg/l/4h

2-propanol (67-63-0)	
LD50 oral rat	5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat)
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)
ATE US (oral)	5045.00 mg/kg body weight
ATE US (dermal)	12870.00 mg/kg body weight
ATE US (vapors)	73.00 mg/l/4h
ATE US (dust, mist)	73.00 mg/l/4h

Skin corrosion / irritation : Causes severe skin burns - pH 2
Serious eye damage / irritation : Causes severe eye damage - pH 2
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

2-butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable

Reproductive Toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
Potential Adverse human health effects and symptoms : Based on available date, the classification criteria are not met.

SECTION 12: Ecological Information

12.1 Toxicity

Ammonium Hydrogen Di-Fluoride (1341-049-7)	
LC50 Fish	562 mg/l (96 h; Brachydanio rerio)
LC50 other aquatic organisms 1	10-100; 96 h
LC50 Fish 2	237 mg/l (96 h; Brachydanio rerio)
Threshold limit other aquatic organisms 1	10-100; 96 h

Phosphoric Acid, conc. = 85% (7664-38-2)	
LC50 fish 1	138 mg/l (96 h; Pisces; Pure substance)
LC50 other aquatic organisms 1	100-1000 mg/l (96 h; Protozoa; Pure substance)
LC50 fish 2	600 mg/l (Pisces; Pure substance)
LC50 other aquatic organisms 2	240 mg/l (Pure substance)
TLM fish 1	138 ppm (24 h; Gambusia affinis; Pure substance)
TLM other aquatic organisms 1	100-1000 (96 h; Protozoa; Pure substance)
TLM other aquatic organisms 2	240 mg/l (Pure substance)

2-butoxyethanol (111-76-2)	
LC50 fish 1	116 ppm (96 h; Cyprinodon variegatus; Nominal concentration)
EC50 Daphnia 1	1700 mg/l (48 h; Daphnia sp.; Nominal concentration)
LC50 fish 2	1341 ppm (96 h; Lepomis macrochirus)
EC50 Daphnia 2	1720 mg/l (24 h; Daphnia magna)
TLM fish 1	100 - 1000, 96 h; Pisces
TLM other aquatic organisms	100 - 1000, 96 h
Threshold limit algae 1	900 mg/l (168 h; Scenedesmus quadricauda)
Threshold limit algae 2	35 mg/l (192 h; Microcystis aeruginosa)

GROUT WIZARD

Safety Data Sheet

according to Federal Register / Col. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.2 Persistence and degradability

GROUT WIZARD	
Persistence and degradability	Not established
2-butoxyethanol (111-76-2)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.71g O ₂ /g substance
Chemical oxygen demand (COD)	2.20g O ₂ /g substance
ThOD	2.305g O ₂ /g substance
BOD (% of ThOD)	0.31 % ThOD

12.3 Bioaccumulative potential

GROUT WIZARD	
Bioaccumulative potential	Not established
2-butoxyethanol (111-76-2)	
Log Pow	0.81 (Experimental value; BASF test; 25C
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4)

12.4 Mobility in Soil

2-butoxyethanol (111-76-2)	
Surface Tension	0.027 N/m (25°C)

12.5 Other adverse effects

Effect on ozone layer : No additional information available
Effect on the global warming : No known ecological damage caused by this product
Other information : Avoid release to the environment

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local, state, and federal regulations.
Ecology - Waste materials : Avoid release to the environment

SECTION 14: Transport Information

In accordance with DOT

Transport document description : NA1760 Compounds, cleaning liquid, Class 8, PGIII, (Contains Phosphoric Acid)
UN No. (DOT) : UN1760
DOT NA no. : NA1760
Reportable Quantities : 5000 lbs (2270 Kg)
Proper Shipping Name : Compounds, cleaning liquid
Contains Phosphoric Acid
DOT Hazard Classes : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard Labels (DOT) :



DOT symbols : D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring a technical name

Packing Group : III - Medium Danger

DOT special Provisions (49 CFR 172.102) : B2-MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.
IB2 - Authorized IBCs: Meetal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50C (1.1 bar at 122F), or 130 kPa at 55C (1.3 bar at 131F) are authorized.
N37 - This material may be shipped in an integrally-lined fiber drum (qG) which meets the general packaging requirements of subpart B of part 173 of this subchapter, the requirements of part 178 of this subchapter at the packing group assigned for the material and to any other special provisions of column 7 of the 172.101 table.
T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3)
TP2 - a. The maximum degree of filling must not exceed the degree of fillin determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the expansion of the liquid between the mean temperature of the liquid during filling (tf) and the liquids transported under ambient conditions may be calculated using for formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15C (59F) and 50C (122F), respectively.
TP27 - A portable tank having a inumum test pressure of 4 bar (400kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as deined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

GROUT WIZARD

Safety Data Sheet

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SECTION 15: Regulatory Information

15.1 US Federal Regulations

Ammonium Hydrogen Di-Fluoride (1341--049--7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

Not Listed on the United States SARA Section 313

RQ (Reportable quantity, section 304 of EPAs List of Lists):	100 lbs
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Phosphoric Acid, conc=85% (7664-38-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

Not Listed on the United States SARA Section 313

RQ (Reportable quantity, section 304 of EPAs List of Lists):	5000 lbs
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15.2 Regulations

15.2.1 International

CANADA

No additional information is available

EU-Regulations

No additional information is available

Classification according to Regulations (EC) No. 1272/2008 [CLP]

Not Classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not Classified

15.2.2 National

No additional information is available

SECTION 16: Other Information

Revision Date : 5/18/2015

Other Information : None

HMIS III Rating

Health : 3 Serious hazard – Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard

Reactivity : 1 Slight Hazard

Personal Protection : E

SDS US (GHS Hazcom 2012)

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