



## SAFETY DATA SHEET according to Regulation (EU) 2015/830

Page 1/9

### WUNDERGUNGE

Revision 29  
Revision date 2017-07-28

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

##### 1.1. Product identifier

Product name	WUNDERGUNGE
Product code	QAFS027

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); -----
Description	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; A heavy duty thickened Hydrochloric / Phosphoric Acid cleaning solution. Only use when specifically authorised by local management. For cleaning heavy iron brake block dust soiling from the exterior of vehicles, roof glass, station signs etc.

##### 1.3. Details of the supplier of the safety data sheet

Company	Superfine Manufacturing Ltd
Address	Orchardbank Industrial Estate Forfar Angus Scotland DD8 1TD
Web	www.superfine.co.uk
Telephone	Tel: 01307 463538
Fax	Fax: 01307 468505
Email	nigel@superfine.co.uk
Email address of the competent person	nigel@superfine.co.uk

##### 1.4. Emergency telephone number

Emergency telephone number	01307 463538 8.30am to 17.00pm
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	C; R35 Xn; R20 Symbols: C: Corrosive.
Main hazards	Harmful by inhalation. Causes severe burns.
2.1.2. Classification - EC 1272/2008	Skin Corr. 1A: H314;


##### 2.2. Label elements

## WUNDERGUNGE

Revision 29

Revision date 2017-07-28

## 2.2. Label elements

<b>Hazard pictograms</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
<b>Precautionary Statement: Prevention</b>	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands and other contacted skin thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	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/ . P363 - Wash contaminated clothing before reuse.
<b>Precautionary Statement: Storage</b>	P405 - Store locked up.
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to an approved waste contractor.

## 2.3. Other hazards

<b>Other hazards</b>	PBT not identified as a PBT substance.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
phosphoric acid ... %, orthophosphoric acid ... % . . (Orthophosphoric acid)	015-011-00-6	7664-38-2	231-633-2	01-2119485924-24	10 - 20%	C; R34	
Hydrochloric acid (Hydrogen chloride (gas and aerosol mists))	017-002-00-2	7647-01-0	231-595-7	01-2119484862-27	10 - 20%	T; R23 C; R35	
2-butoxyethanol	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	1 - 10%	Xn; R20/21/22 Xi; R36/38	
1H-Imidazole-1-ethanol,4,5-dihydro, -2-C15-C17 unsaturated alkyl derivatives		61791-39-7	263-171-2		0 - 0.5%	C; R34 Xn; R22 N; R50/53	

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
phosphoric acid ... %, orthophosphoric acid ... % . . (Orthophosphoric acid)	015-011-00-6	7664-38-2	231-633-2	01-2119485924-24	10 - 20%	Skin Corr. 1B: H314;	
Hydrochloric acid (Hydrogen chloride (gas and aerosol mists))	017-002-00-2	7647-01-0	231-595-7	01-2119484862-27	10 - 20%	Met. Corr. 1: H290; Skin Corr. 1A: H314; STOT SE 3: H335;	
2-butoxyethanol	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	1 - 10%	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315;	
1H-Imidazole-1-ethanol,4,5-dihydro, -2-C15-C17 unsaturated alkyl derivatives		61791-39-7	263-171-2		0 - 0.5%	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Chronic 1: H410;	

## Further information

<b>Product Shelf Life</b>	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
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## WUNDERGUNGE

Revision 29

Revision date 2017-07-28

## Further information

Active Ingredients	Ingredients Wundergunge - Hydrochloric Acid, Phosphoric Acid, Butylene Glycol, Xantham Gum, Less than 5% Cationic Surfactant.
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## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Drink plenty of water to dilute ingested product.

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

Inhalation	Causes burns.
Eye contact	Causes burns. Risk of serious damage to eyes.
Skin contact	Causes burns.
Ingestion	Causes burns.

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

Inhalation	Move the exposed person to fresh air. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Seek medical attention. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Skin contact	Remove contaminated clothing immediately. Rinse immediately with plenty of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.

## General information

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.
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## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	This product is not flammable . Use fire-extinguishing media appropriate for surrounding materials.
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## 5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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## 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## Further information

	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

	Wear suitable protective equipment.
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## 6.2. Environmental precautions

	Advise local authorities if large spills cannot be contained.
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## WUNDERGUNGE

Revision 29

Revision date 2017-07-28

## 6.3. Methods and material for containment and cleaning up

For large spills: Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. For small spills: Flush down the drain with plenty of water.

## 6.4. Reference to other sections

See section 2, 7, 8, 13 for further information.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Do not breathe vapours or spray mist. Adopt best Manual Handling considerations when handling, carrying and dispensing.

## 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry area. Keep container tightly closed. Keep out of the reach of children. Store in original container.

## 7.3. Specific end use(s)

No data is available on this product.

## Suitable packaging

Plastic containers.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Occupational exposure controls.

## 8.1.1. Exposure Limit Values

2-butoxyethanol	WEL 8-hr limit ppm: 25 WEL 15 min limit ppm: 50 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 123 WEL 15 min limit mg/m3: 101.2 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
Hydrochloric acid (Hydrogen chloride (gas and aerosol mists))	WEL 8-hr limit ppm: 1 WEL 15 min limit ppm: 5 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 2 WEL 15 min limit mg/m3: 8 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
phosphoric acid ... %, orthophosphoric acid ... % . . (Orthophosphoric acid)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 1 WEL 15 min limit mg/m3: 2 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -

DNEL: Derived no-effect level.

Exposure Pattern - Workers

## WUNDERGUNGE

Revision 29  
Revision date 2017-07-28

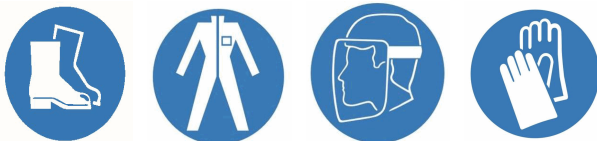
## Exposure Pattern - Workers

2-butoxyethanol	<b>Acute inhalation - Systemic effects</b>	1091 mg/m <sup>3</sup>	
	<b>Acute inhalation - Local effects</b>	246 mg/m <sup>3</sup>	<b>Acute dermal - Systemic effects</b>
	<b>Long-term - inhalation - Systemic effects</b>	98 mg/m <sup>3</sup>	89 mg/kg
			<b>Long-term - dermal - Systemic effects</b>
			125 mg/kg

## Exposure Pattern - General population

2-butoxyethanol	<b>Acute inhalation - Systemic effects</b>	426 mg/m <sup>3</sup>	
	<b>Acute dermal - Systemic effects</b>	89 mg/kg	<b>Acute oral - Systemic effects</b>
	<b>Long-term - inhalation - Systemic effects</b>	59 mg/m <sup>3</sup>	26.7 mg/kg
	<b>Long-term - dermal - Systemic effects</b>	75 mg/kg	<b>Long-term - inhalation - Local effects</b>
			147 mg/m <sup>3</sup>
			<b>Long-term - oral - Systemic effects</b>
			6.3 mg/kg

## 8.2. Exposure controls

8.2.1. Appropriate engineering controls  Eye / face protection Skin protection - Handprotection Respiratory protection  8.2.3. Environmental exposure controls				
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.			
	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location.			
	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields.			
	Rubber gloves.			
	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.			
Prevent further leakage or spillage if safe to do so.				

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

## WUNDERGUNGE

Revision 29  
Revision date 2017-07-28

## 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Viscous liquid.
<b>Colour</b>	Off white
<b>Odour</b>	Strong
<b>pH</b>	0.1 - 0.8
<b>Melting point</b>	No data available
<b>Initial boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	< 600 centipoise
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>Conductivity</b>	No data available
<b>Surface tension</b>	No data available
<b>Specific gravity</b>	1.107 - 1.125 g/cm <sup>3</sup>
<b>Gas group</b>	No data available
<b>Benzene Content</b>	No data available
<b>Lead content</b>	No data available
<b>VOC (Volatile organic compounds)</b>	No data available

## Water solubility

	soluble.
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions. No specific reactivity hazards associated with this product.
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## 10.2. Chemical stability

	Stable under normal conditions. No particular stability concerns.
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## 10.3. Possibility of hazardous reactions

	Strong acids. Strong oxidising agents.
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## 10.4. Conditions to avoid

	Protect from frost.
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## 10.5. Incompatible materials

	No incompatible groups noted.
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## 10.6. Hazardous decomposition products

	No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

## WUNDERGUNGE

Revision 29  
Revision date 2017-07-28

## 11.1. Information on toxicological effects

Acute toxicity	based on available data the classification criteria are not met.
Skin corrosion/irritation	Skin Corrosion Category 1A.
Serious eye damage/irritation	Corrosivity to eyes is assumed.
Respiratory or skin sensitisation	based on available data the classification criteria are not met.
Germ cell mutagenicity	based on available data the classification criteria are not met.
Carcinogenicity	based on available data the classification criteria are not met.
Reproductive toxicity	based on available data the classification criteria are not met.
STOT-single exposure	based on available data the classification criteria are not met.
STOT-repeated exposure	based on available data the classification criteria are not met.
Aspiration hazard	based on available data the classification criteria are not met.

## 11.1.2. Mixtures

	No data available.
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## 11.1.3. Hazard Information

	No data available.
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## 11.1.4. Toxicological Information

	No data available
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## SECTION 12: Ecological information

## 12.1. Toxicity

	No data available
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## 12.2. Persistence and degradability

	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.
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## 12.3. Bioaccumulative potential

	No data is available on this product.
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## Partition coefficient

	WUNDERGUNGE No data available	2-butoxyethanol 0.8 log P
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## 12.4. Mobility in soil

	No data is available on this product.
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## 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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## 12.6. Other adverse effects

	No data available.
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## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Dispose of waste and residues in accordance with local authority requirements.
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## General information

	Dispose of in compliance with all local and national requirements.
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## Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.
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## WUNDERGUNGE

Revision 29

Revision date 2017-07-28

**SECTION 14: Transport information**

## Hazard pictograms



## 14.1. UN number

UN1760

## 14.2. UN proper shipping name

CORROSIVE LIQUID, N.O.S. (Contains Hydrochloric acid and Phosphoric Acid)

## 14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

## 14.4. Packing group

Packing group II

## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## 14.6. Special precautions for user

No additional special precautions.

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

## ADR/RID

Hazard ID	80
Tunnel Category	(E)

## IMDG

EmS Code	F-A S-B
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## IATA

Packing Instruction (Cargo)	855
Maximum quantity	30 L
Packing Instruction (Passenger)	851
Maximum quantity	1 L

**SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC,
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## WUNDERGUNGE

Revision 29

Revision date 2017-07-28

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

	<p>93/105/EC and 2000/21/EC.</p> <p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p>
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## 15.2. Chemical safety assessment

	No information available.
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## SECTION 16: Other information

## Other information

Revision	<p>This document differs from the previous version in the following areas:.</p> <p>1 - Description.</p> <p>3 - Active Ingredients.</p> <p>11 - Skin corrosion/irritation.</p> <p>11 - Serious eye damage/irritation.</p>
Text of risk phrases in Section 3	<p>R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.</p> <p>R22 - Harmful if swallowed.</p> <p>R23 - Toxic by inhalation.</p> <p>R34 - Causes burns.</p> <p>R35 - Causes severe burns.</p> <p>R36/38 - Irritating to eyes and skin.</p> <p>R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
Text of Hazard Statements in Section 3	<p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>Met. Corr. 1: H290 - May be corrosive to metals.</p> <p>Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Acute Tox. 4: H312 - Harmful in contact with skin.</p> <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Acute Tox. 4: H332 - Harmful if inhaled.</p> <p>Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p>

## Further information

	<p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.</p>
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