

Product Tile Clean
 Revision date 19 December 2022
 Revision 1



Safety Data Sheet (SDS)
 according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Product name	Tile Clean
Product no.	HMTILE
Other means of identification	No information available.

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

Identified uses	Cleaning Agent (Professional Use Only).
Uses advised against	Any other purpose.

1.3 Details of the supplier of the safety data sheet

Supplier	Kitchenmaster NI Ltd 11 Comber Road Belfast BT8 8AN United Kingdom Tel: 028 9081477 02890812881 sales@kitchenmaster-ni.com
Contact person	

1.4 Emergency telephone number

Emergency telephone	Emergency Telephone Number: 028 9081 4777 08:30 - 17:00 Monday to Thursday 08:30 - 16:30 Friday
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Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)	
Physical and chemical hazards	Not classified
Human health	Skin Corr. 1C - H314
Environment	Not classified

2.2 Label elements

Contains	Orthophosphoric acid 81.5%
Detergent labeling	<5% non-ionic surfactants

Label in accordance with (EC) no. 1272/2008



Signal word	Danger
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Hazard statements	H314 Causes severe skin burns and eye damage.
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Precautionary statements

Prevention

P260 Do not breathe dust/fume/ gas/mist/vapours/spray.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 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 or doctor/physician.

2.3 Other hazards

None known.

Section 3: Composition/information on ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
Orthophosphoric acid 81.5%	CAS-No.: 7664-38-2 EC No.: 231-633-2	Skin Corr. 1B - H314	15-25%
sulphamidic acid	CAS-No.: 5329-14-6 EC No.: 226-218-8 REACH Reg No.: 01-2119488633-28-XXXX	Aquatic Chronic 3 - H412, Skin Irrit.2 - H315, Eye Irrit.2A - H319	1-5%
Alcohols, C12-13, branched and linear, ethoxylated	CAS-No.: 160901-19-9 EC No.: 931-954-4	Acute Tox 4 - H302, Eye Dam. 1 - H318, Aquatic Chronic 3 - H412	1-5%

The full text for all hazard statements are displayed in section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.
 Orthophosphoric acid: Specific Concentration Limits = H314 Skin Corr. 1B >= 25; H315 Skin Irrit. 2 >= 10 - < 25; H319 Eye Irrit. 2 >= 10 - < 25.

Section 4: First aid measures

4.1 Description of first aid measures

General information

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

Inhalation

If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration and seek medical attention. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Ingestion

If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Provide fresh air, warmth and rest. Get medical attention immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Do NOT give the exposed person anything to drink.

Skin contact

Remove affected person from source of contamination. If this product contacts the skin, immediately flush the affected area with plenty of clean running water for at least fifteen (15) minutes. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing. Chemical burns must be treated by a physician.

Eye contact

Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Corrosive to respiratory system. May cause breathing difficulties if inhaled.

Ingestion

Severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Skin contact

Corrosive! Can cause redness, pain, and severe skin burns.

Eye contact Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Extinguishing media Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products During fire, gases hazardous to health may be formed.

Unusual fire & explosion hazards In the case of fire or if heated, a pressure increase will occur and the container may burst. May react with metal to liberate flammable hydrogen gas.

Specific hazards Exposure to combustion products may be a hazard to health. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

5.3 Advice for firefighters

Special fire fighting procedures If possible, fight fire from protected position. Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Containers close to fire should be removed immediately or cooled with water if safe to do so. Do not release runoff from fire to drains or watercourses.

Protective equipment for firefighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Eliminate all sources of ignition. Evacuate and ventilate area. In case of inadequate ventilation, use respiratory protection. Wear protective clothing as described in Section 8 of this safety data sheet. Only trained and properly protected personnel must be involved in clean-up operations. Avoid inhalation of vapours and contact with skin and eyes. If necessary evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

For emergency responders Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Local Authority or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Spill clean up methods DO NOT touch spilled material! Ventilate and evacuate the area. Eliminate all ignition sources. Stop leak if possible without risk. Wear necessary protective equipment. Wear respirator if ventilation is not adequate. Use non-metallic tools/containers for clean up. Large spills should be collected mechanically (remove by pumping) for disposal. Absorb spillage with non-combustible, absorbent material - sand. In case of a large scale of spill, dyke area with sand to stop the spill spreading. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4 Reference to other sections

Reference to other sections See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling

Read and follow manufacturer's recommendations. Use proper personal protection when handling (refer to Section 8). Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid inhalation of vapours. Avoid prolonged or repeated contact. Do not mix with other chemicals. Keep away from ignition sources. Avoid contact with metals.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep upright. Do not store above eye height. Keep away from alkali and oxidizing materials. Keep in an area equipped with acid resistant flooring.

Storage class

Corrosive storage.

7.3 Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage description

Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
Orthophosphoric acid 81.5%	OEL		1 mg/m ³		2 mg/m ³	IOELV
Orthophosphoric acid 81.5%	WEL		1 mg/m ³		2 mg/m ³	

Ingredient comments

Ireland, Occupational Exposure Limits 2021.
Workplace Exposure Limits Guidance Note EH40/2005.

8.2 Exposure Controls

Protective equipment



Engineering measures

Provide adequate ventilation, including appropriate local extraction. Use in a chemical fume hood to keep airborne levels below recommended exposure limits. Ventilation should be corrosion proof.

Respiratory equipment

Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Use type ABEK (EN 14387) respirator cartridges. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respiratory protection as specified by an industrial hygienist or other qualified professional if concentrations exceed the limits listed in Section 8. Consult manufacturer for specific advice. Change filters frequently.

Hand protection

Use suitable acid/chemical resistant protective gloves if there is a risk of skin contact. Refer to manufacturer for specialist advice. Suggested material: Neoprene. Minimum layer thickness: 0.7 mm. Break through time: >480 minutes. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Use suitable acid/chemical resistant protective gloves if there is a risk of skin contact. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye protection

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN

Other protection	166(EU). Wear appropriate clothing to prevent any possibility of skin contact. Suggested PPE: chemical resistant full-length overalls and boots. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN 943.
Hygiene measures	Wash contaminated clothing before reuse. Wash promptly if skin becomes contaminated. Wash hands after contact, at the end of each work shift and before eating, smoking and using the toilet. Handle in accordance with good industrial hygiene and safety practice.
Process conditions	Ensure that eye flushing systems and safety showers are located close by in the work place. Additional advice: Portable Diphoterine eyewash unit.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Clear. Red
Odour	Characteristic.
Odour threshold - lower	No information available as testing has not been completed.
Odour threshold - upper	No information available as testing has not been completed.
pH-Value, Conc. Solution	1 - 2
pH-Value, Diluted solution	Not relevant as the product is a concentrated solution.
Melting point	No information available as testing has not been completed.
Initial boiling point and boiling range	No information available as testing has not been completed.
Flash point	Non-Flammable
Evaporation rate	No information available as testing has not been completed.
Flammability state	Not applicable as the product is not flammable.
Flammability limit - lower(%)	Not applicable as the product is not flammable.
Flammability limit - upper(%)	Not applicable as the product is not flammable.
Vapour pressure	No information available as testing has not been completed.
Vapour density (air=1)	No information available as testing has not been completed.
Relative density	1.10 - 1.20 kg/l (at 20°C)
Bulk density	Does not apply, the product is a liquid.
Solubility	Soluble in water.
Decomposition temperature	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	Does not apply, the product is a mixture.
Auto ignition temperature (°C)	Not applicable as the product is not flammable.
Viscosity	No information available as testing has not been completed.
Explosive properties	Not classified as explosive.
Oxidising properties	The product does not meet the criteria to be classified as oxidising.

9.2 Other information

Molecular weight	Does not apply, the product is a mixture.
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Volatile organic compound	No information available as testing has not been completed.
Other information	None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	May be corrosive to metals. May react with bases or oxidisers.
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10.2 Chemical stability

Stability	Stable under recommended storage conditions.
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10.3 Possibility of hazardous reactions

Hazardous reactions	For information on hazardous reaction see section 10.1.
Hazardous polymerisation	Unknown.
Polymerisation description	Unknown.

10.4 Conditions to Avoid

Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid exposure to high temperatures or direct sunlight.
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10.5 Incompatible materials

Materials to avoid	Alkalis. Strong oxidising substances.
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10.6 Hazardous decomposition products

Hazardous decomposition products	When heated, vapours/gases hazardous to health may be formed Oxides of carbon.
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Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Toxicological information	No toxicological information for the overall finished product.
Acute toxicity (Oral LD50)	No information available as testing has not been completed.
Acute toxicity (Dermal LD50)	No information available as testing has not been completed.
Acute toxicity (Inhalation LD50)	No information available as testing has not been completed.
Serious eye damage/irritation	Causes serious eye damage.
Skin corrosion/irritation	The product is classified as a skin corrosion/irritation hazard.
Respiratory sensitisation	The product is not classified as a respiratory hazard.
Skin sensitisation	The product is not classified as a skin sensitisation hazard.
Germ cell mutagenicity	The product is not classified as a mutagen.
Carcinogenicity	The product is not classified as a carcinogen hazard.
Specific target organ toxicity - Single exposure:	
STOT - Single exposure	The product is not classified as a single exposure specific target organ toxin.
Specific target organ toxicity - Repeated exposure:	
STOT - Repeated exposure	The product is not classified as a repeat exposure specific target organ toxin.
Inhalation	Corrosive to respiratory system. May cause breathing difficulties if inhaled.
Ingestion	Severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
Skin contact	Corrosive! Can cause redness, pain, and severe skin burns.
Eye contact	Causes serious eye damage.
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Routes of entry	Eyes, skin, ingestion or inhalation.
Target organs	Eyes, skin, digestive system, respiratory system.
Aspiration hazards:	The product is not classified as an aspiration hazard.
Reproductive toxicity:	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
sulphamidic acid	3160.00mg/kg Rat	>2000.00mg/kg Rat	
Orthophosphoric acid 81.5%	1530.00mg/kg Rat		
Alcohols, C12-13, branched and linear, ethoxylated	>300.00mg/kg Rat	>2000.00mg/kg Rabbit	

11.2 Information on other hazards

Information on other hazards	None known.
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Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish	No information available as testing has not been completed.
Acute toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Acute toxicity - Aquatic plants	No information available as testing has not been completed.
Acute toxicity - Microorganisms	No information available as testing has not been completed.
Chronic toxicity - Fish	No information available as testing has not been completed.
Chronic toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Chronic toxicity - Aquatic plants	No information available as testing has not been completed.
Chronic toxicity - Microorganisms	No information available as testing has not been completed.
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Eco toxicological information	The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

12.2 Persistence and degradability

Degradability	The degradability of the product has not been stated.
Biological oxygen demand	No information available as testing has not been completed.
Chemical oxygen demand	No information available as testing has not been completed.

12.3 Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Bioaccumulation factor	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	Does not apply, the product is a mixture.

12.4 Mobility in soil

Mobility	Soluble in water.
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12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product is not identified as a PBT/vPvB substance.
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12.6 Endocrine disrupting properties

Endocrine disrupting properties	The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.
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12.7 Other adverse effects

Other adverse effects	None known.
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Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
sulphamidic acid	LC50 96 Hours 70.30mg/l Pimephales promelas (Fat-head Minnow)		
Alcohols, C12-13, branched and linear, ethoxylated		EC50 48 Hours 1.00mg/l Daphnia magna	

Section 13: Disposal considerations

Waste management When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods

Disposal methods Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.

Section 14: Transport information

14.1 UN number or ID number

UN no. (ADR) UN1805
 UN no. (IMDG) UN1805
 UN no. (IATA) UN1805

14.2 UN proper shipping name

ADR proper shipping name PHOSPHORIC ACID, SOLUTION
 IMDG proper shipping name PHOSPHORIC ACID, SOLUTION
 IATA proper shipping name PHOSPHORIC ACID, SOLUTION

14.3 Transport hazard class(es)

ADR class 8
 IMDG class 8
 IATA class 8

Transport labels



14.4 Packing group

ADR/RID/ADN packing group III
 IMDG packing group III
 IATA packing group III

14.5 Environmental hazards

ADR No
 IMDG No
 IATA No

14.6 Special precautions for user

EMS F-A, S-B
 Emergency action code A3 A803
 Hazard no. (ADR) 80
 Tunnel restriction code (E)

14.7 Maritime transport in bulk according to IMO instruments

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture

EU legislation	<p>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).</p> <p>REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.</p> <p>Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019.</p>
Approved code of practice	<p>Workplace Exposure Limits Guidance Note EH40/2005.</p> <p>2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)</p>

15.2 Chemical safety assessment

Chemical safety assessment	No chemical safety assessment has been carried out.
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Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
Revision comments	This is a first issue.
Revision date	19 December 2022
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.
H226	Flammable liquid and vapour.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H361	Suspected of damaging fertility or the unborn child .
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H201	Explosive; mass explosion hazard.
H351	Suspected of causing cancer .
H316	Causes mild skin irritation.

Disclaimer

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.