

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name SHIED PRO TILE WASH SP10 Synonym(s) • PRODUCT CODE: SP10

1.2 Uses and uses advised against

Multi-Purpose Acid Tile, Grout and Stone Cleaner Use(s)

1.3 Details of the supplier of the product

LEFT PILLAR PTY LTD TA'S SHIELD CHEMICALS Supplier name

Address Unit 7/37 Anzac Avenue Smeaton Grange, NSW, 2567, AUSTRALIA

Telephone 1300 519 074

Email info@krystalshield.com.au www.krystalshield.com.au Website

1.4 Emergency telephone number(s) **Emergency** 1300 519 074

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS classification(s) Acute Toxicity: Oral: Category 4

Skin Corrosion/Irritation: Category 1B

Specific Target Organ Systemic Toxicity (Single Exposure): Category 3

2.2 Label elements

DANGER Signal word

Pictogram(s)





Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Prevention statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

> SDS Date: 16 Dec 2023 Page 1 of 7

PRODUCT NAME SHIELD PRO TILE WASH

Response statement(s)

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.

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position 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 or doctor/physician.
P321 Specific treatment is advised - see first aid instructions.

P363 Wash contaminated clothing before reuse.

Storage statement(s)

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal statement(s)

P501 Dispose of contents/container in accordance with relevant regulations.

2.3 Other hazards

No information provided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
HYDROCHLORIC ACID	7647-01-0	231-595-7	<20%
AMMONIUM HYDROGEN DIFLUORIDE (AMMONIUM FLUORIDE)	1341-49-7	215-676-4	<5%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. To protect rescuer, use a Full-face Type B (Inorganic and acid

gas) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

Skin If skin contact occurs, immediately remove contaminated clothing. Flush skin under running water for 15

minutes. Then apply calcium gluconate gel. Contact a Poisons Information Centre on 13 11 26 (Australia

Wide).

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

First aid facilities Eye wash facilities and safety shower should be available.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

4.3 Immediate medical attention and special treatment needed

CORROSIVE POISONING TREATMENT: Immediate treatment preferably in a hospital is mandatory. It is also important to attempt to discover the chemical substances ingested. In treating corrosive poisoning, DO NOT INDUCE VOMITING; DO NOT ATTEMPT GASTRIC LAVAGE; and DO NOT ATTEMPT TO NEUTRALISE THE CORROSIVE SUBSTANCE. Vomiting will increase the severity of damage to the oesophagus as the corrosive substance will again come in contact with it. Attempting gastric lavage may result in perforating either the oesophagus or stomach. Immediately dilute the corrosive substance by having the patient drink milk or water. If the trachea has been damaged tracheostamy may be required. For oesophageal burns begin broad-spectrum antibiotics and corticosteroid therapy. Intravenous fluids will be required if oesophageal or gastric damage prevents ingestion of liquids. Long-range therapy will be directed toward preventing or treating oesophageal scars and strictures.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Page 2 of 7 SDS Date: 16 Dec 2023 Version No: 4

PRODUCT NAME SHIELD PRO TILE WASH

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases (chlorides) when heated to decomposition. May evolve flammable hydrogen gas when in contact with some metals.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

2R

- 2 Fine Water Spray.
- R Wear liquid-tight chemical protective clothing and breathing apparatus. Dilute spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with sodium bicarbonate or 50-50 mixture of sodium carbonate and calcium hydroxide. Collect for complete neutralisation and appropriate disposal.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a secured, cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation and fire protection systems.

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
	Reference	ppm	mg/m³	ppm	mg/m³
Fluorides, as F	SWA (AUS)		2.5		
Hydrogen chloride (Hydrochloric acid)	SWA (AUS)	5 (Peak)	7.5 (Peak)		

Biological limits

Ingredient	Determinant	Sampling Time	BEI
AMMONIUM HYDROGEN DIFLUORIDE (AMMONIUM FLUORIDE)	Fluoride in urine	Prior to shift	2 mg/L
	Fluoride in urine	End of shift	3 mg/L

Reference: ACGIH Biological Exposure Indices

SDS Date: 16 Dec 2023 Version No: 4

PRODUCT NAME SHIELD PRO TILE WASH

8.2 Exposure controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction

ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE

Wear splash-proof goggles. When using large quantities or where heavy contamination is likely, wear a Eye / Face

faceshield.

Hands Wear full-length PVC or full-length rubber gloves. Wear coveralls and rubber boots and a PVC apron. **Body**

Respiratory Where an inhalation risk exists, wear a Full-face Type B (Inorganic and Acid gas) respirator. At high vapour

levels, wear an Air-line respirator.











9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

CLEAR LIQUID Appearance Odour SLIGHT ODOUR **Flammability** NON FLAMMABLE Flash point NOT RELEVANT

Boiling point 100°C

Melting point NOT AVAILABLE **Evaporation rate** NOT AVAILABLE

pН < 1

Vapour density **NOT AVAILABLE**

Specific gravity 1.1

Solubility (water) **SOLUBLE**

Vapour pressure **NOT AVAILABLE** Upper explosion limit **NOT RELEVANT** Lower explosion limit **NOT RELEVANT Partition coefficient NOT AVAILABLE NOT AVAILABLE** Autoignition temperature **Decomposition temperature NOT AVAILABLE Viscosity NOT AVAILABLE Explosive properties NOT AVAILABLE** Oxidising properties **NOT AVAILABLE** Odour threshold **NOT AVAILABLE**

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reacts with water. In contact with reactive metals, can liberate flammable hydrogen gas which can form explosive mixtures in air.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), alkalis (e.g. sodium hydroxide) and metals.

10.6 Hazardous decomposition products

May evolve toxic gases (chlorides) when heated to decomposition.

SDS Date: 16 Dec 2023 Page 4 of 7 Version No: 4

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Harmful if swallowed. Ingestion may result in severe burns of the mouth and throat, as well as a danger of **Acute toxicity**

perforation of the oesophagus and the stomach.

Information available for the ingredient(s):

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
HYDROCHLORIC ACID	2210 mg/kg (rat)		1108 ppm/1hr (human -
AMMONIUM HYDROGEN DIFLUORIDE (AMMONIUM FLUORIDE)	130 mg/kg (rat)		

Skin Causes severe burns. Contact may result in irritation, redness, pain, rash, dermatitis, blistering and severe

burns. May cause discolouration of the skin. Effects may be delayed.

Causes severe burns. Contact may result in irritation, lacrimation, pain, redness and corneal burns with Eye

possible permanent eye damage.

Sensitisation Not classified as causing skin or respiratory sensitisation.

Mutagenicity Not classified as a mutagen. Carcinogenicity Not classified as a carcinogen. Reproductive Not classified as a reproductive toxin.

Over exposure may result in irritation of the nose and throat, coughing and bronchitis. High level exposure STOT - single may result in intense thirst, ulceration, lung tissue damage, chemical pneumonitis and pulmonary oedema. exposure

STOT - repeated Repeated exposure may result in discolouration of teeth; as well as lung, kidney, liver, ligament and bone (osteosclerosis, skeletal fluorosis) damage. exposure

Not classified as causing aspiration. **Aspiration**

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information provided.

12.2 Persistence and degradability

Expected to be rapidly biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation is not expected.

12.4 Mobility in soil

If hydrochloric acid is spilled on soil, it will infiltrate. During its transport through soil, the acid will dissolve some of the soil material, in particular carbonates, and will be neutralised to some degree. However, significant amounts of acid are expected to remain for transport down to groundwater.

12.5 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal For small amounts (as determined by risk assessment or similar): Wearing the protective equipment detailed

above, neutralise to pH 6-8 by SLOW addition to a saturated sodium bicarbonate solution or similar basic solution. Dilute with excess water and flush to drain. Waste disposal should only be undertaken in a well

ventilated area. For larger amounts: Dispose in accordance with local regulations.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

SDS Date: 16 Dec 2023 Page 5 of 7



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1789	1789	1789
14.2 Proper Shipping Name	HYDROCHLORIC ACID	HYDROCHLORIC ACID	HYDROCHLORIC ACID
14.3 Transport hazard class	8	8	8
14.4 Packing Group	II	II	II

14.5 Environmental hazards

Not a Marine Pollutant

14.6 Special precautions for user

 Hazchem code
 2R

 GTEPG
 8A1

 EMS
 F-A, S-B

15. REGULATORY INFORMATION

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

Poison schedule Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous

Substances [NOHSC: 1008(2004)].

Hazard codes C Corrosive

Xi Irritant
Xn Harmful

Risk phrases R22 Harmful if swallowed.

R34 Causes burns.

R37 Irritating to respiratory system.

Safety phrases S1/2 Keep locked up and out of reach of children.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label

where possible).

Inventory listing(s) AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ACIDS: When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

Page 6 of 7 SDS Date: 16 Dec 2023

PRODUCT NAME SHIELD PRO TILE WASH

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

[End of SDS]

Page 7 of 7

SDS Date: 16 Dec 2023