

# Active Chemicals Pty Ltd

ABN 16 117 075 180  
Professional Cleaning chemicals

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION

#### TILEKLEEN 150

##### Other Names

Acidic solution of acid salts  
Brick and wall cleaning formula

##### Uses

Cleaning of tiles, bricks, boiler scale removal, chemical intermediate, ore reduction, pickling and metal cleaning.

##### Company Details

<b>Supplier:</b>	Active Chemicals Pty Ltd	<b>Telephone No.:</b>	02 9826 0201
<b>Address:</b>	4/20 Powdrill Road Prestons NSW 2170	<b>Facsimile No.:</b>	02 9826 0208
		<b>Email:</b>	office@aquapac.com.au

##### Emergency Telephone No.:

**Business Hours:** 02 9826 0201

**After Hours:** 000 Fire brigade or Police

**Poisons Information Centre:** 131126

### 2. HAZARD IDENTIFICATION

<b>U.N. Number:</b>	1760, Corrosive liquid	<b>Class:</b>	8
<b>Hazchem:</b>	2R	<b>Poisons Schedule:</b>	S6
<b>EPG:</b>		<b>Packaging Group:</b>	II

**Classified as hazardous according to criteria of NOHSC**  
**Classified as a Dangerous Good for the purposes of transport.**

##### HARMFUL IRRITANT

##### Risk Phrases

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

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R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious eye damage.
R43	May cause sensitisation by skin contact.
R52	Harmful to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

## Safety Phrases

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27	Take off immediately all contaminated clothing.
S28:RODINE85	After contact with skin, wash immediately with plenty of soap-suds.
S37/39	Wear suitable gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61	Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

## 3.COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion
Hydrochloric acid	7647-01-0	5 -25%
Water	7732-18-5	65 – 70%
Sulfamic acid		< 30%
Surfactants		<5%

## 4. FIRST AID MEASURES

### First Aid

**Swallowed** Rinse mouth thoroughly with water immediately. Give 1 – 3 cups of milk or water to drink. Seek medical attention immediately. Do NOT induce vomiting.

**Eye** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

**Skin** Immediately wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and wash before re-use. Seek medical advice.

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**Inhalation** Remove victim from exposure - avoid becoming a casualty. Seek medical advice.

## Health Effects

Symptoms that may arise if the product is mishandled are:

### Acute

**Swallowed** Irritant causing severe chemical burns.

**Eye** Irritant causing severe chemical burns.

**Skin** Irritant causing severe chemical burns.

**Inhaled** Respiratory irritant causing severe chemical burns.

### Chronic Effects

Repeated or prolonged skin contact may lead to irritant contact dermatitis.

***As with any chemical - ingestion, inhalation, and prolonged or repeated skin contact should be avoided by good occupational work practice.***

**Poison Information Centres** in each State capital city can provide additional assistance.

### Advice to Doctor

Treat symptomatically

## 5. Fire Fighting Measures

### Not combustible material

Conditions to avoid:

High temperature: Toxic fumes of hydrogen chloride may be released if involved in a fire. Fire fighters are to wear self contained breathing apparatus and full protective clothing due to chlorine gas risk.

Materials to avoid:

Strong alkalis.

Hazardous Decomposition Products:

May produce hydrogen chloride and /or corrosive gases

Extinguishing Media:

Fire fighters should wear full protective clothing including self-contained breathing apparatus. In case of fire use water, foam, carbon dioxide, dry powder.

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## 6. Accidental Release Measures

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination including breathing apparatus.

Do not allow spill material to enter the environment. Neutralise spill then contain material using inert absorbent material eg vermiculite. Place into suitable labelled containers and hold for waste disposal. Wash area down with excess water once removed.

## 7. Handling and Storage

### Precautions for Safe handling:

Ensure an eye bath and safety shower are available and ready for use.

### Conditions for safe Storage:

Store in a cool, dry, well ventilated area. Keep container tightly closed when not in use.

**\*\* KEEP CONTAINERS WELL SEALED \*\***

***Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. Always wash hands before smoking, eating, drinking or using the toilet.***

### Personal Protection

**Eyes:** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.  
**Skin:** Rubber or PVC gloves, overalls or PVC suit, safety or rubber boots  
**Respiratory:** If mist is generated the use of a air fed respirator is recommended.

## PRECAUTIONS FOR USE

## 8. Exposure Controls / Personal Protection

### Exposure Standards (for atmospheric contaminants in the occupational environment)

No value assigned for this product by the NOHSC (Workcover). However, the exposure standard for the acid constituent is:

	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Hydrochloric acid	5	7.5		

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## Engineering Controls

Maintain concentration below recommended exposure limit. Use in a well-ventilated area. Avoid generating and inhaling mists and aerosols. Keep containers closed when not in use. If risk of overexposure exists, wear SAA approved respirator to comply with Australian Standards, ensuring correct fit to obtain adequate protection.

## Personal Protection

**Eyes:** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.  
**Skin:** Rubber or PVC gloves, overalls or PVC suit, safety or rubber boots  
**Respiratory:** If mist is generated the use of a air fed respirator is recommended.

Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. Always wash hands before smoking, eating, drinking or using the toilet.

## Flammability

Not combustible material.

## 9. Physical Description / Properties

<b>Appearance:</b>	Clear to pale yellow solution.		
<b>Flash point:</b>	N/A	<b>Specific Gravity:</b>	1.14
<b>Boiling point (°C):</b>	110 C	<b>ph (5% solution)</b>	< 1
<b>Melting Point (°C):</b>	N/A	<b>Solubility in Water (g/L):</b>	soluble
<b>Vapour pressure:</b>	4.6 mm Kg (1 atmosphere)		

## Other Properties

**Odour:** characteristic pungent odour  
**Solubility:** Soluble in water

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## 10. Stability and Reactivity

### Chemical Stability:

Product is stable under normal conditions of use, storage and temperature.

**\*\* KEEP CONTAINERS WELL SEALED \*\***

### Conditions to avoid:

High temperature: Toxic fumes of hydrogen chloride may be released if involved in a fire. Fire fighters are to wear self contained breathing apparatus and full protective clothing due to chlorine gas risk.

### Materials to avoid:

Strong alkalis.

### Hazardous Decomposition Products:

May produce hydrogen chloride and /or corrosive gases

### Extinguishing Media:

Fire fighters should wear full protective clothing including self-contained breathing apparatus. In case of fire use water, foam, carbon dioxide, dry powder.

## 11. Toxicological Information

### Toxicology:

N/A

## 12. Ecological Information

### Ecotoxicity

No data available.

### Persistence and Degardability

This product is not readily Biodegradable and is harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Mobility** No information available on mobility for this product. Completely Miscible with water.

**Environmental Fate (Exposure)** Do NOT allow product to enter waterways, drains or sewers.

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## 13. Disposal Considerations

### Disposal

Refer to State and Land Management Authority and relevant Environmental Protection Authority. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulation or recycled/reconditioned at an approved facility.

## 14. Transport Information

<b>U.N. Number:</b>	1789	<b>Class:</b>	8
<b>Hazchem:</b>	2R	<b>Poisons Schedule:</b>	6
<b>EPG:</b>	8A1	<b>Packaging Group:</b>	II

**Classified as hazardous according to criteria of NOHSC**  
**Classified as a Dangerous Good for the purposes of transport.**

Use only plastic (PE, PP, PVC) or fibreglass containers/vessels – corrosive to mild and stainless steels. Other tanks should be lined with chloride resistant materials. Pumps should also be lined with chloride resistant materials.

## 15. Regulatory Information

**Poisons Schedule** 6

**EPG** 40

**AICS Name** No data available.

## 16. Other Information

### Legend to Abbreviations and Acronyms

< less than    > greater than

**AICS** Australian Inventory of Chemical Substances

**CAS** Chemical Abstracts Service (Registry Number)

**CO2** Carbon Dioxide

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**COD** Chemical Oxygen Demand

**Deg C** degrees Celsius

**ERMA** Environmental Risk Management Authority

**g** gram    **g/cm<sup>3</sup>** grams per cubic centimetre    **g/L** grams per litre

**HSNO** Hazardous Substance and New Organism

**IDLH** Immediately Dangerous to Life and Health

**Immiscible** liquids are insoluble in each other

**Kg** kilogram    **Kg/m<sup>3</sup>** kilograms per cubic metre

**LC 50** LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

**LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals

**Ltr** Litre    **m<sup>3</sup>** cubic metre    **mbar** millibar    **mg** milligram    **mg/24H** milligrams per 24 hours

**Mg/Kg** milligrams per kilogram    **mg/m<sup>3</sup>** milligrams per cubic metre

**Misc** miscible

**miscible** liquids form one homogeneous liquid phase regardless of the amount of either component present

**mm** millimetre    **mPa.s** milli Pascal per second

**N/A** Not Applicable

**NOHSC** National Occupational Health and Safety Commission

**OECD** Organization for Economic Co-operation and Development

**PEL** Permissible Exposure Limit

**Ppb** parts per billion    **ppm** parts per million

**Ppm/2h** parts per million per 2 hours    **ppm/6h** parts per million per 6 hours

**RCP** Reciprocal Calculation Procedure

**STEL** Short Term Exposure Limit

**TLV** Threshold Limit Value

**Tne** tonne

**TWA** time Weighted Average

**Ug/24H** micrograms per 24 hours

**UN** United Nations (number)

**W** weight

## Company Disclaimer

All information contained in this data sheet is as accurate and up-to-date as possible. Since Active Chemicals Pty Ltd cannot anticipate or control the conditions under

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which this information may be used, each user should review the information in the specific context of the intended application.

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