

SAFETY DATA SHEET

Section 1: Product and Company Identification:



Defender CSD Pure

Impregnating Stone Consolidator

Applied Products Australia Pty Ltd

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Poisons Information Centre: 131 126

Date of MSDS Preparation: 1 January 2014

Section 2: Hazard Identification

Product Name: Defender CSD Pure
Product Code: AP675
Risk Phrase: HARMFUL. FLAMMABLE
R10 Flammable
R20 Harmful by inhalation
R36/38 Irritating to eyes and skin
R37 Irritating to respiratory system

Safety Phrases: S(1/2) 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.
S41 In case of fire and/or explosion, do not breathe fumes.

Section 3: Composition and Information on Ingredients

INGREDIENTS

All hazardous substances as defined by the NOHSC code 1008 are listed by chemical name and CAS No. Other ingredients which are determined to be non-hazardous are listed by generic name or as "other ingredients determined not to be hazardous."

CHEMICAL NAME	CAS No.	PROPORTION
Ethyl Silicate [Tetraethylorthosilicate]	78-10-4	10 - <30%
Other ingredients determined not to be hazardous or below cut-off limits.		To 100%

Section 4: First Aid

Swallowed: If poisoning occurs, immediately contact a doctor or a Poisons Information Centre Tel 0800 764 766. Do NOT induce vomiting. Give 3 glasses of water.

Eyes: In case of contact with eyes, flush immediately under running water (ensure eyelids are held open) for 15 minutes. Contact a doctor or Poisons Information Centre.

Skin: Remove contaminated clothing immediately and wash skin thoroughly with soap and water. Seek medical advice if irritation persists.

Inhaled: Remove from contaminated area. Apply artificial respiration if not breathing.

First Aid Facilities: Normal washroom facilities.

Advice to doctor: Treat symptomatically. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

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Section 5: Fire Fighting Measures

- Flammability:** Flammable
- Fire/Explosion Hazard:** Use dry chemical, foam or water fog. Do not apply straight streams of water. Evacuate area. Wear full body protective clothing with self-contained breathing apparatus (SCBA) and protective gloves. If a leak or spill has not ignited use water spray to disperse the vapours and to protect personnel attempting to stop leak. Prevent by any means available to prevent any spillage entering a watercourse.
- Hazardous Combustion Products:** Oxides of carbon, Smoke, Fumes.

Section 6: Accidental Release Measures

- Spills and Disposals:** **Large Spills** - Clean-up personnel should wear full protective clothing including breathing apparatus if inhalation hazard exists. Eliminate all sources of ignition. Warn occupants of downwind areas of fire and explosion hazards. Prevent liquid from entering sewers, watercourses and low lying areas. Keep public away. Shut off source if possible to do so without hazard. Take measures to minimize the effect on the ground water. Immediately notify emergency services (Police or Fire Brigade) of large spills. Absorb on sand, dirt, vermiculite or similar absorbent material.
- Place into labeled drums and dispose of according to local government regulations. This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.
- Small Spills** (less than 5Lt) – Absorb onto waste paper and allow to dry. Then dispose of in normal refuse.
- Personal Protective Equipment:** Refer to Section 8 of this MSDS for PPE required.

Section 7: Safe Handling Information

- Storage & Transport:** **Store and Transport according to the Australian Dangerous Goods Code.** Store in a cool place and out of direct sunlight. Keep container sealed when not in use. Do not store, handle or open near an open flame, sources of heat or sources of ignition. Store locked up and out of reach of children. Only store in the original container as supplied by the manufacturer. Open slowly in order to control possible pressure release. DO NOT pressurize, cut, heat or weld full or empty containers. Do not reuse empty containers without commercial cleaning.
- Handling:** Handle appropriate to its high flammable characteristic. Always use recommended Personal Protective Equipment (see section 8 of this MSDS). Do not mix with any other chemical unless expressly recommended by the manufacturer.

Section 8: Exposure Controls and Personal Protection

- Exposure Standards:** No exposure standards have been assigned to this product.
- Engineering Controls:** Maintain adequate ventilation at all times. Ensure good cross ventilation. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended. Only use fans which are rated flame proof. Avoid product vapours being sucked into air conditioning or ventilation system.
- Personal Protection Equipment:**
- Gloves – Use NBR, vinyl or chemical resistant gloves.
 - Goggles – Chemical goggles or faceshield to protect eyes if eye contact possible and if decanting.
 - Respiratory Protection – Not normally required. If used in confined spaces or if chemical sensitivity experienced select and use respirators in accordance with AS/NZS 1715/1716. The use of half-face P1 (dust/mist) respirator with replaceable filters is recommended.

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Section 9: Physical and Chemical Properties

Appearance:	Colourless liquid with mild solvent odour
Boiling Point:	Not determined
Vapour Pressure:	Not determined
Specific Gravity:	1.0 – 1.10
Flashpoint:	41 °C
Flammability Limits:	Not determined
Solubility in Water:	Immiscible
OTHER PROPERTIES	
Corrosiveness:	Not corrosive.
pH:	N/A

Section 10: Stability and Reactivity

Stability:	Stable under normal conditions of use.
Hazardous Decomposition Products:	Non known.
Hazardous Polymerization:	Will not occur.
Incompatibilities:	Oxidizing agents and chlorine
Conditions to avoid:	Incompatibilities.

Section 11: Toxicological Information

HEALTH EFFECTS

ACUTE

Swallowed:	Harmful if swallowed. Swallowing may result in chemical pneumonia.
Eye:	Will cause severe eye irritation.
Skin:	Will cause irritation to the skin.
Inhaled:	Vapour concentrations in poorly ventilated areas may cause irritation to the eyes, nose, and respiratory system with effects including; headache, drowsiness and dizziness.

CHRONIC

Prolonged skin contact may lead to dermatitis.
Prolonged or unattended eye contact may result in permanent eye damage.

Toxicological Information: There is no toxicological information for the product **Defender CSD Pure**.

Section 12: Ecological Information

Ecological Information: There is no ecological information for the product **Defender CSD Pure**.

Section 13: Disposal Considerations

Disposal Methods: Recycle all plastic containers using suitable local council recycling facilities. Rinse out the container with clear water. Place into labeled drums and dispose of according to local government regulations. This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.
Do not tip product directly into the sewer system.

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Section 14: Transport Information

Defender CSD Pure is classified as a Dangerous Good for transport or storage.

UN Number:	1292
Dangerous Goods Class and Subsidiary Risk:	Class 3 FLAMMABLE LIQUID
Proper Shipping Name:	TETRAETHYL SILICATE SOLUTION
Hazchem Code:	Not allocated
Packing Group:	III
Poisons Schedule No:	Schedule 5

Section 15: Regulatory Information

Hazard Category:	Xn: Harmful
Poisons Scheduling:	Schedule 6
	<u>Standard Statements</u>
A	For advice, contact a Poisons Information Centre (Tel 131 126) or a doctor
G3	If swallowed do NOT induce vomiting.

Section 16: Other Information

Contact Point: Poisons Information Centre Tel 131 126

Last MSDS Revision: 1 January 2014

Sources:

- Preparation of Safety data Sheets for Hazardous Chemicals Dec 2011
- National Code of Practice for the Preparation of Material Safety Data Sheet 2nd Edition [NOHSC: 2011(2003)]
- National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC:1015(2001)]
- Hazardous Substances Information System Data Base 26 July 2011
- Australian Dangerous Goods Code 6th Edition
- Standard for the Uniform Scheduling of Medicines and Poisons No.2 August 2011

Abbreviations:	ppm	-	parts per million
	TLV	-	Threshold Limit Value
	mmHG	-	millimetres of Mercury (Hg) – this is a unit of pressure
	CAS No	-	Chemical Abstracts Service Registry Number
	TWA	-	Time Weighted Average
	STEL	-	Short Term Exposure Limit
	PEL	-	Permissible Exposure Limit.
	< & >	-	< Less Than > Greater Than
	UN	-	United Nations
	AICS	-	Australian Inventory of Chemical Substances
	LC50	-	Lethal Concentration. LC50 is the concentration of a material in air which causes death of 50% (one half) of a group of test animals.
	LD50	-	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.

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