Section 1 - Identification of The Material and Supplier

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Kurnell NSW 2231 Australia **http://www.sealersplus.com.au**

Chemical nature: Water-based silane/siloxane emulsion.

Trade Name: **EFF-SHIELD+**

Product Use: Efflorescence-inhibiting, water-repellent admixture for cement-based grouts, tile adhesives, mortars, renders, screeds and concrete.

Creation Date: **October, 2026**

This version issued: **October 2026** and is valid for 5 years from this date.

Poisons Information Centre: Phone 13 11 26 from anywhere in Australia

Section 2 - Hazards Identification

This material is hazardous according to the criteria of Safe Work Australia GHS 7.

GHS Signal word: WARNING

Hazard Classifications
Skin Corrosion/Irritation - Category 2
Eye Damage/Irritation - Category 2A

HAZARD STATEMENT:

H315: Causes skin irritation.
H319: Causes serious eye irritation.

PREVENTION

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing mist, vapours or spray.
P264: Wash contacted areas thoroughly after handling.
P271: Use only outdoors or in a well ventilated area.
P280: Wear protective gloves, protective clothing and eye protection.

RESPONSE

P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice or attention.
P337+P313: If eye irritation persists: Get medical advice or attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

STORAGE

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of contents and container to an approved waste disposal facility in accordance with local regulations (see Section 13 of this SDS).

Emergency Overview

Physical Description & Colour: White or tinted light blue liquid (emulsion).

Odour: Faint odour.

Major Health Hazards: causes skin irritation, causes serious eye irritation. Mists may irritate the respiratory tract. The product may contain or release small amounts of ethanol (flammable) through hydrolysis of the silanes during storage, transport and application.

Section 3 – Composition and Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m³)	STEL (mg/m³)
Alkyl alkoxysilane / siloxane oligomers	not available	<50%	not set	not set
Ethanol	64-17-5	0–5%	1880	not set
Other non hazardous ingredients including water	secret	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients, or ingredients below their cut-off limits, are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: If inhaled, remove the patient to fresh air. Remove contaminated clothing and loosen remaining clothing. Seek prompt medical advice if symptoms occur.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water for at least 15 minutes. Use soap and plenty of water if required. Seek medical advice if irritation persists. Wash clothing before reuse.

Eye Contact: If in eyes, rinse immediately with plenty of water for several minutes, holding the eyelids open. Remove contact lenses if present and easy to do. Seek medical advice if irritation develops and persists.

Ingestion: If swallowed, rinse mouth with water. Do NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious person. If vomiting occurs, give further water. Seek prompt medical advice.

Most important symptoms and effects: Causes skin irritation. Causes serious eye irritation.

Protection of First Aiders: First aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The product may contain small amounts of ethanol, and its vapours may form explosive mixtures with air. On burning, it may emit toxic fumes. Exposure to combustion products may be a hazard to health.

Extinguishing Media: Water fog (or, if unavailable, fine water spray), alcohol-resistant foam, carbon dioxide, dry chemical powder or sand. **Unsuitable:** water jet.

Hazardous Combustion Products: Carbon oxides, silicon oxides and formaldehyde.

Fire Fighting: If safe to do so, remove containers from the path of the fire. Keep containers cool with water spray. Fire fighters should wear self-contained breathing apparatus and suitable protective clothing if there is a risk of exposure to vapour or products of combustion.

Section 6 - Accidental Release Measures

Personal Precautions: Remove all sources of ignition. Keep unprotected persons away. Use personal protective equipment (see Section 8). Avoid contact with eyes and skin. Avoid inhaling mists and vapours. Spilt material is slippery: indicate the risk of slipping.

Environmental Precautions: Prevent material from entering surface waters, drains, sewers and soil. Contain any fluid using suitable material (e.g. earth). Retain contaminated water and fire-fighting water.

Methods for Cleaning Up: Shut off all possible sources of ignition. Do not flush away with water. For small spills, absorb with a liquid-binding material such as diatomaceous earth, sand or vermiculite, collect into properly labelled, sealed containers and dispose of according to local, state and federal regulations. For large spills, if possible, pump the material into suitable containers for disposal to prevent run-off into drains and waterways. Clean up any slippery residue with a detergent or soap solution. If contamination of sewers or waterways has occurred, advise local emergency services.

Section 7 - Handling and Storage

Handling: Handle in accordance with good industrial hygiene and safety practice. Check Section 8 of this SDS for personal protective measures. Use with adequate ventilation. Do not get on skin or clothing, avoid inhaling vapour or mist, avoid contact with eyes and do not swallow. Always stir well before use. Keep away from heat and sources of ignition and take precautionary measures against static discharge. Take care to prevent spills and waste and to minimise release to the environment.

Storage: Store in a cool, well ventilated area away from heat, fire and ignition sources, out of direct sunlight, between 5°C and 25°C. Protect from frost. Keep containers tightly closed when not in use and check them regularly for leaks. Store away from incompatible materials listed in Section 10. Consult AS 1940 (Storage and Handling of Flammable and Combustible Liquids) and relevant state or territory regulations: the product contains combustible organic (silicone) materials and may contain small amounts of flammable ethanol.

Precautions Against Fire and Explosion: Flammable vapours may accumulate or form explosive mixtures with air in containers, including partial, empty or unclean containers, vessels or other enclosed spaces. Keep away from sources of ignition and do not smoke. Cool endangered containers with water.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715 and AS/NZS 1716, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501, Industrial Eye Protection: AS 1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS 2210.

SWA Exposure Limits	CAS No	TWA (ppm)	TWA (mg/m³)	STEL (mg/m³)
Ethanol	64-17-5	1000	1880	not set

No exposure standard has been set by SWA for this product as a whole. Small amounts of ethanol may be present. No biological limit values have been allocated.

Ventilation: Use with adequate ventilation. Processing may form hazardous compounds (see Section 10).

Eye Protection: Chemical-resistant safety glasses or goggles should be worn.

Skin Protection: Wear impervious gloves and protective clothing. Wash hands after handling. Do not eat, drink or smoke when handling this material.

Protective Material Types: We suggest that gloves and protective clothing be made from nitrile, rubber or PVC.

Respirator: Wear approved respiratory protection according to AS/NZS 1715/1716 if there is a risk of exposure to mist or intensive vapour concentrations.

Environmental Exposure Controls: Prevent material from entering surface water, sewers and soil.

Section 9 - Physical and Chemical Properties:

Physical Description & colour: White or tinted light blue liquid (emulsion).

Odour: Faint.

pH:	Approx 7 – 9
Freezing/Melting Point:	Approximately 0°C.
Boiling Point:	No data.
Flash point:	No data.
Flammability:	No data. May contain small amounts of flammable ethanol.
Upper / Lower Explosion Limit:	No data.
Evaporation Rate:	No data.
Relative Density (20°C):	Approx 0.95 g/mL
Water Solubility:	Miscible with water.
Autoignition temp:	No data.
Decomposition Temperature:	No data. Can form formaldehyde above 150°C in air (see Section 10).
Viscosity (20°C):	No data.
Total VOC:	No data.
Particle Characteristics:	Not applicable for liquids.

Section 10 - Stability and Reactivity

Reactivity: Not classified as a reactivity hazard. Stable under normal storage conditions.

Possibility of Hazardous Reactions: Vapours may form explosive mixtures with air. Use at elevated temperatures may form hazardous compounds. Can react with strong oxidising agents. When heated above 150°C in the presence of air, the product can form formaldehyde vapour.

Conditions to Avoid: Heat, flames, sparks and frost.

Incompatibilities: Strong oxidising agents.

Hazardous Decomposition Products: Hydrolyses to release ethanol, particularly at elevated temperature or in contact with masonry or alkaline substances. Thermal decomposition product: formaldehyde.

Polymerisation: This product will not undergo hazardous polymerisation reactions.

Section 11 - Toxicological Information

No damaging effect is expected when the product is handled in accordance with standard industrial practice and local regulations, according to present knowledge. No toxicological test data or LD50 data is available for this specific material.

Potential Health Effects

Inhalation: Mists may be irritating to the mucous membranes and respiratory tract.

Skin Contact: Contact with skin will result in irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause lung damage (bronchopneumonia or pulmonary oedema).

Long Term Exposure: No information available for this specific material.

Section 12 - Ecological Information

General: Avoid contaminating waterways. No ecotoxicity information is available for this specific material.

Persistence and Degradability: Silicone ingredients are not readily biodegradable. Ethanol is readily biodegradable. Hydrolysis products such as silanols or siloxanols can form polysiloxane, which is removed by adsorption to activated sludge.

Mobility: Silicone content can be adsorbed by suspended particles and separated by sedimentation.

Bioaccumulation Potential: Bioaccumulation is not expected according to current knowledge.

Section 13 - Disposal Considerations

Disposal: Dispose of by incineration in a special waste incinerator, or through a licensed waste disposal contractor, in accordance with local, state and federal regulations. Do not dispose of into drains or waterways.

Containers: Empty containers completely. Containers may be recycled or re-used. Observe local, state and federal regulations.

Section 14 - Transport Information

UN Number:	Not allocated
DG Class:	Not allocated
Subsidiary Risk:	Not allocated
Packing Group:	Not allocated
Hazchem Code:	Not allocated

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Section 15 - Regulatory Information

Poisons Schedule (SUSMP): Not scheduled.

AICS/AIIC: All of the significant ingredients in this formulation are compliant with AICIS regulations.

International Inventories: Ingredients are listed on, or comply with, the following inventories: ECL (Korea), ENCS (Japan), IECSC (China), DSL (Canada), PICCS (Philippines), TSCA (USA), TCSI (Taiwan) and REACH (EU).

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature (Eff-Shield+ Technical Bulletin).

The product may contain small amounts of ethanol, either present in the product or formed by hydrolysis of the silanes it contains. Ethanol is flammable and its vapours may form explosive mixtures with air.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS/AIIC	Australian Inventory of Industrial Chemicals
AICIS	Australian Industrial Chemicals Introduction Scheme
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
TWA / STEL	Time Weighted Average / Short Term Exposure Limit
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.
IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS.
OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020) and GHS Revision 7