

Material Safety Data Sheet

CONPELL Pty Ltd.

Issue Date December 11, 2019

Pen Shield Enhance

Version 3

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SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Chemical Nature: Silane/Siloxane resin solution.
Trade Name: Pen Shield Enhance
Product Use: Penetrating enhancing concrete and stone sealer.
Product Code: CPPSE
Creation Date: December 2019
This version issued December 2019 and is valid for 5 years from this date

THIS VERSION ISSUED: DECEMBER 2016 AND IS VALID FOR 5 YEARS FROM THIS DATE.

Poisons Information Centre: Phone 13 1126 from anywhere in Australia

SUPPLIER CONTACT INFORMATION:

Name : Conpell Pty. Ltd.

Address : Unit 2, 4 Elderslie Drive, Yatala Qld 4207, PO Box 4252 Loganholme DC Qld 42129 **Telephone :** 61.1300 966 118

Website : www.conpell.com

Email : info@conpell.com

Emergency : 0433 400 220(24 hours, 7 days a week)

SECTION 2 - HAZARDS IDENTIFICATION

Statement of Hazardous Nature

Classified as dangerous goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road and rail. **DANGEROUS GOODS.**

This material is hazardous according to Safe Work Australia: **HAZARDOUS SUBSTANCE.**

SUSMP Classification: None scheduled

GHS Hazard: Flammable liquids (Category 2).

CATEGORY: Eye irritation (Category 2)

Specific target organ toxicity – single exposure (Category 3)

UN Number: 1992



GHS Signal word:

DANGER

HAZARD STATEMENT:

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENTS:

GENERAL

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

PREVENTION

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilation/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing mist/vapours/spray.

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RESPONSE

P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in well ventilated area.
P280: Wear protective gloves, protective clothing and eye or face protection.
P303 + P361 + P353: IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove victim 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 so. Continue rinsing.
P312 CALL A POISONS CENTRE or doctor/physician if you feel unwell.
P337+P313: If eye irritation persists, get medical advice/attention.
P370 + P378: in case of fire: Use foam/water spray/fog for extinction.
P403 + p233: Store in a well-ventilated place. Keep container tightly closed.
P430 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up:
P501: Dispose of contents/container in accordance with local regulations.

STORAGE

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Conc,%	GHS Hazard codes
Propan-2-ol	67-63-0	60-90%	H225, H320, H336
Polydimethylsiloxane,(((3-((2-aminoethyl) Amino)propyl)silyldiyne)tris(oxy)Otris-,methoxy-terminated	67923-07-3	10-30%	H319

If the sum of the ingredients is less than 100%, the material consists of further ingredients determined not to be hazardous or below their cut off limits as listed in HCIS.

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 1126 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: Remove victim from exposure if safe to do so, if rapid recovery does not occur transport to nearest medical facility for additional treatment. Remove contaminated clothing.

Skin Contact: If skin contact occurs, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and wash skin thoroughly with water and follow by washing with soap if available. If irritation occurs seek medical advice.

Eye Contact: If in eyes, hold eyes open, flood with water for at least 15 minutes. If redness, burning, blurred vision or swelling persists transport to nearest medical facility for additional treatment.

Ingestion: If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Advice to doctor – Treat symptomatically. Methanol [CAS 67-56-11-(a reaction by product) is readily and rapidly absorbed at all exposure routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo, and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects and exposure.

Aggravated medical conditions caused by exposure.

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SECTION 5 - FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder). Water of foam may cause frothing.
UNSUITABLE EXTINGUISHING MEDIA	Water jet.
SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	Highly flammable liquid. May form flammable vapour mixtures with air. Avoid allignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc must be eliminated both in and near the work area. DO NOT SMOKE. Flameproof equipment is necessary in all areas where this chemical is being used. Nearby equipment must be earthed. Vapour may travel a considerable distance to source of ignition and flash back.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS.	On burning will admit toxic fumes, including those of oxides of carbon and silicon. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so remove containers from the path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.
<i>Additional information</i>	Classed as flammable under ADG Code and AS 1940.
<i>Hazchem code</i>	2S

SECTION 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEEDURES	Shut off all possible sources of ignition. Clear area of all unprotected personal if contamination of sewers or waterways has occurred advise local emergency services.
ENVIRONMENTAL PRECAUTIONS	slippery when spilt. Avoid accidents, clean up immediately, Wear protective equipment
PERSONAL PRECAUTIONS/ PROTECTIVE EQUIPMENT/ METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP.	to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain – prevent run off into drains and waterways. Use absorbent (soil sand or other inert materials.

SECTION 7 - HANDLING AND STORAGE

This material is a Scheduled Poisons S5 and a Class 3 flammable liquid and must be stored, maintained and used in accordance with the relevant regulations.

Precautions for safe handling: Highly flammable product. Avoid breathing vapours. Handle and open containers with care in well ventilated area. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electronic discharge may cause fire. Ensure electrical continuity by earthing all equipment.

Conditions for safe storage: Keep containers closed at all times. Store away from foodstuffs. Store in clean steel or plastic containers. Storage temperature below 32°C. Store in a well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in section 10. Check regularly for leaks.

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS:	None established for this mixture However Workplace Exposure Standard(s) for constituent(s):
	SUBSTANCE STEL(mgm) ³ STEL (ppm) TWA(mgm ³) TWA(ppm) Notice
	Propanol-2-ol 1230 500 983 400
	Methanol 262 200
	Ethanol 1900 1000
APPROPRIATE ENGINEERING CONTROLS.	Ensure ventilation is adequate to maintain air concentrations below Workplace Exposure Standards. Vapour heavier than air – prevent concentration in hollows or sumps. DO NOT enter confined space where vapour may have collected. Keep containers closed when not in use. If in the handling and application of this material, safe exposure levels could be exceeded., the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements. The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods and environmental factors.
INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE)	Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear organic vapour/particulate respirator or an air supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & colour:	Clear water white liquid.
Odour:	Alcoholic odour.
Flammability:	Product is highly flammable.
Boiling Point:	82°C
Melting Point:	-88.5°C.
Volatiles:	80-90%.
Vapour Pressure(mmHg):	4.1.
Vapour Density (air=1):	2.
Specific Gravity:	0.80+/- 0.05 @20°C
Water Solubility:	Not soluble.
Flash point:	11.7°C (closed up).
Auto Ignition Temp	425°C.
Vapour Pressure:	33mm Hg @ 20°C.
Flammability Limits:	LEL: 2%v/v; UEL:12%v/v.
Autotignition:	399°C

SECTION 10 - STABILITY AND REACTIVITY

Chemical Reactivity: Will absorb and react with water (humidity) – keep container sealed.
Chemical stability: Stable under normal conditions of use. Store below 32°C.
Conditions to Avoid: Moisture. Avoid heat, open flames and other ignition sources.
Incompatible materials: Reacts with water. Reaction causes the formation of: ethanol, methanol, Strong oxidising agents, strong acids.

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Hazardous decomposition products: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150°C (302°F) through oxidation.

Hazardous reactions: Oxidising agents (Class 5)

SECTION 11 - TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with the Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and over exposure occurs are:

SYMPTOMS OF EXPOSURE:

Inhalation	Breathing of high vapour concentrations may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of coordination, impaired judgement, continued inhalation may result in unconsciousness and/or death.
Skin	Not irritating to skin.
Eye	May include burning sensation, redness, swelling and/or blurred vision.
Swallowed	May include nausea, vomiting and central nervous system depression (as for inhalation).

ACUTE TOXICITY

Assessment	Inhalation aerosols containing aminofunctional polysiloxanes may cause harmful effects in the lung in animal experiments. Due to the large number of influencing parameters (e.g. amine function, degree of substitution, viscosity, composition). And estimation of the toxicological effect on the lung is not possible for untested products of the category. In such cases exposure to inhalable aerosols must be prevented by adequate technical measures. For this end point no toxicological test data is available for the whole product.
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ACUTE TOXICITY ESTIMATE

EXPECTED TO BE OF LOW TOXICITY – ATEmix(oral):>2000mg/kg

Skin corrosion/irritation	Low toxicity: LD ₅₀ Dermal(rabbit) > 2000mg/kg. Not irritating to skin Prolonged contact may cause defatting of skin which can lead to dermatitis.
Respiratory or skin sensitization	Irritating to eyes.
Germ cell mutagenicity	Not expected to be mutagenic
Carcinogenicity	Not expected to be carcinogenic
Reproductive toxicity	Not expected to impair fertility
Specific target organ toxicity (STOT) Single exposure	Low toxicity: LD ₅₀ Inhalation (rat)> 20mg/l (8 hours). Inhalation of vapours or mists may cause irritation to the respiratory system. High concentrations may cause nervous system depression.
Specific target organ toxicity (STOT) Aspiration hazard	No data available Aspiration into the lungs when swallowed or vomited may cause chemical

DATA RELATED TO INGREDIENTS

Product of hydrolysis	Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation to eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.
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SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: According to current knowledge adverse effects on water purification plants are not expected.

Acute toxicity:	Fish:	Low toxicity: LC/EC/IC50>100mg/l
	Aquatic Invertebrates:	Low toxicity: LC/EC/IC50>100mg/l
	Algae:	Expected to have low toxicity: : LC/EC/IC50>100mg/l
	Microorganisms	Low toxicity: LC/EC/IC50>100mg/l

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Chronic toxicity	Fish	Data not available
	Aquatic Invertebrates	Data not available
	Algae	Data not available
	Microorganisms	Data not available

PERSISTENCE & DEGRADABILITY Solvent carrier is biodegradable, oxidises rapidly by photochemical reactions in air.

Silicone content: Biologically not degradable, Elimination by adsorption to activated sludge.

BIOACCUMULATIVE POTENTIAL Not expected to bio-accumulate.

MOBILITY IN SOIL Miscible with water, if product enters soil, solvent it will be highly mobile and may contaminate groundwater, while silicone content is insoluble in water and bound to the soil.

ENVIRONMENTAL FATE(EXPOSURE)Avoid contaminating waterways.

OTHER ADVERSE EFFECTS Data not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods and containers: Refer to State Land Waste Management Authority. Empty containers must be decontaminated. Normally suitable for disposal at approved land waste site.

SECTION 14 - TRANSPORT INFORMATION

Road and rail transport: Classified as a Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail. **DANGEROUS GOODS.**

Un Number	1992
UN Proper Shipping Number	FLAMMABLE LIQUID TOXIC NOS
ADG Class and subsidiary risk	3
ADG Packing group	11
SPECIAL PRECAUTIONS FOR USER	Not applicable
IERG	16
HAZCHEM CODE	•2S

Marine transport: Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. **DANGEROUS GOODS**

Un Number	1992
UN Proper shipping name	FLAMMABLE LIQUID TOXIC NOS
ADG Class and subsidiary risk	3
ADG Packing group	11
IMDG Marine pollutant	NO
EmS-No (1)	F-E
EmS-No. (2)	S-D
Marine pollutant	NO

Air transport: Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air: **DANGEROUS GOODS.**

Un Number	1992
UN Proper shipping name	FLAMMABLE LIQUID TOXIC NOS
IATA Class and subsidiary risk	3
IATA Packing group	11
IATA Pollutant	NO

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SECTION 15 - REGULATORY INFORMATION

CLASSIFICATION:	This material is hazardous according to Safe Work Australia. HAZARDOUS SUBSTANCE.
CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:	Flammable liquids (Category 2) Eye irritation (Category 2) Specific target organ toxicity – single exposure (Category 2)
HAZARD STATEMENTS:	H225: Highly flammable liquid and vapour H319: Causes serious eye irritation H336: May cause drowsiness or dizziness.
POISONS SCHEDULE (SUSMP) AICS	NOT SCHEDULED All ingredients are on the Australian Inventory of Chemical Substances.

SECTION 16 - OTHER INFORMATION

Date of preparation or last revision of the MSDS **11 December 2016**

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
ACGIH	American conference of Governmental Industrial Hygienists
ASCC	Australian Safety and Compensation Council
ATE	Acute Toxicity Estimates
Carcinogen Category number	1. Established human carcinogen 2. Probably human carcinogen 3. Substances suspected of having carcinogenic potential
Code AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
EPG	Emergency Procedure Guide (superseded by IERG)
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HCIS	The hazardous Chemical Information System (HCIS) is a data base of information on chemicals that have been classified in accordance with the globally Harmonised System of Classification and Labelling of Chemicals (GHS).
HSIS	HSIS is a database of information on substances classified in accordance with Australia's previous hazardous substance classification system, the Approved Criteria for Classifying Hazardous Substances. {NOHSC:1008(2004)}.
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association.
IERG	HB 76-2004 Dangerous Goods – Initial Emergency Response Guide.
INDG	International Maritime Dangerous Goods. A uniform code for transport of dangerous goods at sea.
LEL	lower flammable (explosive) limits in air.
LD50	Lethal Dose sufficient to kill 50% of test population.
NIOSH	National Institute for Occupational Safety and Health the United States federal agency responsible for conducting research and making recommendations for the prevention of work related injury and illness.
NOAEL	No Observed Adverse Effect Level.
NOEL	No Observable Effect Level
NOHSC	National Occupational Health and Safety Commission
NTP	National Toxicology Program (USA)
PEL	Permissible Exposure Limit.
RTECS	Registry of Toxic Effects of Chemical Substances (Symyx Technologies)

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TCL_o	Toxic Concentration Low
TD_{Lo}	Toxic Dose Low: lowest dosage per unit of body weight (typically stated in milligrams per kilogram) of a substance known to have produced signs of toxicity in a particular animal species.
TLV	Threshold Limit Value (ACGIH) The time weighted average used to describe exposure which is harmless to most of the population when exposed 8 hours per day, 40 hours per week.
TWA	Time Weighted Average – The average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a 5 day week. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
SAFEWORK	Independent statutory agency with primary responsibility to improve occupational health and safety and workers compensation arrangements across Australia.
STEL	Short Term Exposure Limit – The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal 8 hour workday.
SUSDP	Standard for the uniform Scheduling of Drugs and Poisons
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UEL	Upper flammable(exposure) limits in air.
UN Number	United Nations Number
VOC	Volatile Organic Content – defined as any chemical based on carbon chains or rings with a vapour pressure greater than 0.1mm of mercury (Hg) or 0.0125Kpa at 25°C. This definition excluded reactive diluents, which are designed to be chemically bound into the cured film. It also includes all constituents >0.5% by volume of formulation which are organic compounds with a boiling point <250°C.
Literature references	Safety data sheets from suppliers Hazardous Chemical Information System (HCIS) – ASCC Australia (on line) GHS (Globally Harmonised System of Substances Classification and Labelling) REACH (European Chemical Substance Information System) ADG Code 7 th Addition SUSMP N° 13

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" (December 2011)