Safety Data Sheet



Identification of Substance & Company

Product

Product name PFL Natural Sealer

Product code NA

HSNOapproval HSR002662

Approval description Surface Coatings and Colourants (Flammable) Group Standard 2017

UN number 1263
Proper Shipping Name PAINT
DG class 3
Packaging group III
Hazchem code 3Y

Uses A clear penetrating sealer for protection against dirt ingression and

stains for a range of different surfaces, particularly suited to

pigmented and plain concretes.

Company Details

Company Peter Fell LTD
Address 81 Patiki Rd
Avondale
Auckland

Telephone09 828 6460Emailinfo@peterfell.co.nz

Emergency Telephone Number: 09 828 6460

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2017). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

Classes Hazard Statements

3.1C H226 - Flammable liquid and vapour.

6.1E (aspiration) H304 - May be fatal if swallowed and enters airways.

6.3B H316 - Causes mild skin irritation.

9.1B H411 - Toxic to aquatic life with long lasting effects.

SYMBOLS

DANGER







Other Classifications

If in contact with water, hydrolytic decomposition may occur to release small amounts of methanol.

Precautionary Statements

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.

P210 - Keep away from ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical equipment.

P242 - Use only non-sparking tools.

Safety Data Sheet



P243 - Take precautionary measures against static discharge.

P280 - Wear protective gloves/eye/face protection.

P273 - Avoid release to the environment.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/ attention.

P391 - Collect spillage.

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

P405 - Store locked up.

Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Silane, trimethoxy(2,4,4-trimethylpentyl)-	34396-03-7	1-5%
Blend of Solvent naphtha (petroleum)	64742-95-6/64742-88-7	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

Ready access to running water is recommende

facilities

Exposure

IFSWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, place **Swallowed**

victim face downwards, with the head turned to the side and lower than the

hips to prevent vomit entering the lungs. Call a POISON CENTRE or

doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Eye contact

lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical

advice.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

Inhaled IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Advice to Doctor Treat symptomatically

Firefighting Measures

Vapours may form an explosive mixture in air which can be ignited by many Fire and explosion hazards:

sources such as pilot lights, open flames, electrical motors, switches and static

Suitable extinguishing

substances:

Carbon dioxide, extinguishing powder, foam.

Unsuitable extinguishing

substances:

Unknown.

Products of combustion:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.

Water. May form toxic mixtures in air and may accumulate in sumps, pits and

other low-lying spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls,

gloves, hat and eye protection.

Hazchem code: **3Y**

Safety Data Sheet



6. Accidental Release Measures

Containment If greater than 1000L is stored, secondary containment and emergency plans to

manage any potential spills must be in place. In all cases design storage to

prevent discharge to storm water.

Emergency procedures In the event of spillage alert the fire brigade to location and give brief description

of hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your

regional council immediately).

Clean-up method Use absorbent (soil, sand or other inert material). Rags are not recommended for

the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Disposal Mop up and collect recoverable material into labelled containers for recycling or

salvage. Recycle containers wherever possible. This material may be suitable for

approved landfill. Dispose of only in accord with all regulations. **Precautions**Wear protective equipment to prevent skin and eye contamination and the

inhalation of vapours. Work up wind or increase ventilation.

7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. Location compliance certificates must be available if storing >100L (containers >5L), 250L (containers ≤5L), 50L (in use). Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents. Store in original container

only.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas.

See section 8 with regard to personal protective equipment requirements. Avoid

skin and eye contact and inhalation of vapour, mist or aerosols.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of $3mg/m^3$ for respirable particulates and $10mg/m^3$ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA WES-STEL

Exposure Stds Silane, trimethoxy(2,4,4-trimethylpentyl)- Solvent naphtha (petroleum Methanol 100ppm, 525mg/m³ data unavailable 200ppm, 262mg/m³ 250ppm, 328mg/m³

Methanol may be released during curing.

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

 $^{{}^*} These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.$

Safety Data Sheet



Personal Protective Equipment

Eyes

Skin



Protective eyewear is not normally necessary when using this product. However, it always prudent to use protective eyewear if splashes are likely.

If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or a such as dermatitis, on the such as dermatitis and the such as designed as designedsensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use.

Respiratory



A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with an organic vapour cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

WES Additional Information Not applicable

9. Physical & Chemical Properties

Appearance clear colourless viscous liquid **Odour** Aromatic solvent odour

no data рH

Vapour pressure ~2.2 hPa at 20°C

Viscosity no data 145-200°C **Boiling point** Volatile materials no data Freezing / melting point no data **Solubility** not soluble 0.832g/cm3

Specific gravity / density Flash point 41°C **Danger of explosion** no data no data

Auto-ignition temperature **Upper & lower flammable**

limits

LEL: 0.8%, UEL: 7.0%

Corrosiveness non corrosive

10. Stability & Reactivity

Stability Stable

Conditions to be avoided Flammable substance. Keep away from sources of ignition at all times. Containers

should be kept closed in order to avoid contamination.

Incompatible groups Oxidising agents, strong acids, bases, water. none known

Substance Specific

Incompatibility

Hazardous decomposition

products

Methanol, carbon dioxide, carbon monoxide

Hazardous reactions none known

11. Toxicological Information

IF SWALLOWED: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation.

IF IN EYES: this product is not expected to cause eye irritation.

IF ON SKIN: Causes skin irritation by drying out the skin causing dryness and cracking.

IF INHALED: At high concentrations: can harm the nervous system. Symptoms may include headache, nausea,

dizziness, drowsiness and confusion. A severe exposure can cause unconsciousness.

Safety Data Sheet



Supporting Data

Acute Oral Using LD_{50} 's for ingredients, the calculated LD_{50} (oral, rat) for the mixture is >5,000

mg/kg. Data considered includes: Silane, trimethoxy(2,4,4-trimethylpentyl)-

>2000mg/kg, Solvent naphtha (petroleum), >15000mg/kg (rat).

Dermal No evidence of dermal toxicity.

Inhaled Using LC_{50} 's for ingredients, the calculated LC_{50} (inhalation, rat) for the mixture is

>20mg/L. Data considered includes: Silane, trimethoxy(2,4,4-trimethylpentyl)->

11.2 mg/L air (4hr), Solvent naphtha (petroleum) >12mg/L (rat).

Eye The mixture is not considered to be an eye irritant.

Skin The mixture is considered to be a skin irritant. Solvent naphtha is considered a mild

skin irritant.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

 $\begin{tabular}{lll} \textbf{Mutagenicity} & \textbf{No ingredient present at concentrations} > 0.1\% \ is \ considered \ a \ mutagen. \\ \textbf{Carcinogenicity} & \textbf{No ingredient present at concentrations} > 0.1\% \ is \ considered \ a \ carcinogen. \\ \textbf{Reproductive} \ / & \textbf{No ingredient present at concentrations} > 0.1\% \ is \ considered \ a \ reproductive \ or \ \ \end{tabular}$

Developmental developmental toxicant or have any effects on or via lactation.

Systemic No ingredient present at concentrations > 1% is considered a target organ

toxicant.

Aggravation of existing conditions

None known.

12. Ecological Data

Summary

This mixture is considered toxic towards aquatic organisms with possible long term effects.

Supporting Data

Disposal method

Aquatic Using EC_{50} 's for ingredients, the calculated EC_{50} for the mixture is between 1 mg/L

and 10 mg/L. Data considered includes: Silane, trimethoxy(2,4,4-trimethylpentyl)- $LC_{50} > 100 \, mg/l$ and $NOEC \ge 100 \, mg/l$ for Oncorhynchus mykiss (mortality, OECD 203), Solvent naphtha (petroleum) 2200 mg/L (96hr, fish), 2.6 mg/L (96hr,

Crustacea).

Bioaccumulation No data **Degradability** No data

Soil No evidence of soil toxicity.

Terrestrial vertebrate See acute toxicity.

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

13. Disposal Considerations

RestrictionsThere are no product-specific restrictions, however, local council and resource

consent conditions may apply, including requirements of trade waste consents. Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which

approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the

environment.

Contaminated packaging Disposal of contaminated packaging must comply with the Hazardous

Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material

of the package. If possible reuse or recycle packaging.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

 $Transport\,according\,to\,NZS\,5433\,(Transport\,of\,Hazardous\,Substances\,on\,Land).\,\,Considered\,a\,dangerous\,good\,for\,Margine and Margine and Ma$

transport.

UN number: 1263 Proper shipping name: PAINT Class(es) 3 Packing group: III
Precautions: Flammable liquid, Hazchem code: 3Y

Marine pollutant

Page 5 of 7 Sept 2022

Safety Data Sheet



15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2017.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity. Inventory An inventory of all hazardous substances must be prepared and

maintained.

Packaging All hazardous substances should be appropriately packaged including

substances that have been decanted, transferred or manufactured for

own use or have been supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 1000L is stored.

Certified handler Not required. Tracking Not required.

Bunding & secondary containment Required if > 1000L is stored.

Signage Required if > 1000L is stored in any one location.

Location compliance certificate Required if > 500L (containers > 5L), 1500L (containers ≤ 5L), 250L (in use) is

stored in any one location.

Flammable zone Must be established if > 100L (closed containers), 25L (decanting), 5L (open

occasionally), 1L (in use), stored in any one location is stored in any one

location.

Fire extinguisher If > 500L present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

CAS Number

Approval Code Approval HSR002662, Surface Coatings and Colourants (Flammable) Group

Standard 2017 Controls, EPA. www.epa.govt.nz
Unique Chemical Abstracts Service Registry Number

Ceiling Exposure Value: The maximum airborne concentration of a biological or

chemical agent to which a worker may be exposed at any time.

Controls Matrix List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).

EC₅₀ Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a

test population (e.g. daphnia, fish species)

EPA Environmental Protection Agency

HAZCHEM Code Emergency action code of numbers and letters that provide information to

emergency services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

 $\begin{array}{ll} \textbf{LD_{50}} & \textbf{Lethal Dose 50\% - dose which is fatal to 50\% of a test population (usually rats)}. \\ \textbf{LC_{50}} & \textbf{Lethal Concentration 50\% - concentration in air which is fatal to 50\% of a test} \\ \end{array}$

population (usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

PES Prescribed Exposure Standard means a WES or a biological exposure standard

that is prescribed in a regulation, a safe work instrument or an approval under

HSNO (including group standards).

 ${\bf STEL} \hspace{1cm} {\bf Short Term \, Exposure \, Limit \, - \, The \, maximum \, airborne \, concentration \, of \, a \, chemical \, or \, }$

biological agent to which a worker may be exposed in any 15 minute period,

provided the TWA is not exceeded

TWA Time Weighted Average – generally referred to WES averaged over typical work

Safety Data Sheet



day (usually 8 hours)
UEL Upper Explosive Limit
UN Number United Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or

chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's

breathing zone.

References

Data Unless otherwise stated comes from the EPA HSNO chemical classification

information database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous

Substances) Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and

available on their web site - www.worksafe.govt.nz.

Other References: EU ECHA, ingredients SDS's, ChemIDplus

Review

Date Reason for review

Sept 2022 Not applicable – new SDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). Full formulation details were not available. This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

