Safety Data Sheet



1. Identification of Substance & Company

Product

Product name PFL Surface Conditioner

Product code SCON HSNO approval HSR002662

Approval description Surface Coatings and Colourants (Flammable) Group Standard 2006

UN number 199

Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (contains methyl ethyl ketone, xylene)

DG class 3
Packaging group II
Hazchem code 3Y

Uses Surface conditioner

Company Details

Company Peter Fell Ltd
Address 81 Patiki Rd
Avondale
Auckland

Telephone 09 828 6460
Email info@peterfell.co.nz

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2006), and is classified as follows:

Classes Hazard Statements

3.1B H226 - Flammable liquid and vapour. 6.1E (oral) H303 - May be harmful if swallowed

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

6.9 (respiratory irritation)
 6.3A
 6.3A
 6.4A
 6.3B
 6.4A
 6.4A

6.8 B H361 - Suspected of damaging fertility or the unborn child.

6.9 B H371 - May cause damage to central nervous system, liver and kidney.

SYMBOLS

WARNING



Other Classifications

There are no other Classifications that are known to apply.

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Precautionary Statements

Read label before use.

Keep out of reach of children.

Keep away from ignition sources. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye/face protection.

Use only outdoors or in a well-ventilated area.

Wash hands thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe vapours.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

IF exposed or concerned: Get medical advice/ attention.

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Store locked up.

Further precautionary statements can be found in Section 4 - First Aid.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Solvents may include: Xylene, Methyl Ethyl Ketone	1330-20-7, 78-93-3	>60%
Acrylic resin	not available	10-30%
Additives	not available	1-10%
3-aminopropyltriethoxysilane	919-30-2	<1%

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 poisoned, burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service). IF exposed or concerned: Get medical advice/ attention.

Recommended first aid facilities	Ready access to running water is recommended. Accessible eye wash is recommended.
Exposure	
Swallowed	DO NOT INDUCE vomiting. If vomiting occurs, place 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.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove 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: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.
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.

^{*} These precautionary statements apply when a flammable zone is required to be established.

See Section 15 – Regulatory Information

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Advice to Doctor

Treat symptomatically

Firefighting Measures

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

Carbon dioxide, extinguishing powder, foam.

pilot lights, open flames, electrical motors, switches and static electricity.

Suitable extinguishing substances:

Unsuitable extinguishing

Emergency procedures

substances:

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.

Unknown.

Hazchem code: 3YE

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 stormwater. 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.

Storage & Handling

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

> 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 test certificates must be available if storing >500L (containers >5L), 1500L (containers ≤5L), 250L (in use). Containers (and outer packaging) must bear the prescribed labelling, including the

Hazchem code, UN number, flammability warning and name of contents.

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.

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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 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA WES-STEL

Exposure Stds (2013) Methyl Ethyl Ketone Stoppm, 217mg/m³* data unavailable

150ppm, 445mg/m³* 300ppm, 890mg/m³

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.

Personal Protective Equipment

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.

Skin



Protective gloves are recommended. PVA or Viton/Butyl gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Open cuts, abraded or irritated skin should not be exposed to this material.

Respiratory



A respirator when airborne concentrations approach the WES (section 8). Use a respirator with an organic vapour cartridge and a dust/mist filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance clear liquid

Odour strong solvent odour

pH no data
Vapour pressure no data
Vapour density >1 (air = 1)
Viscosity no data
Boiling point 78°C
Volatile materials no data
Freezing / melting point no data

Solubility not soluble in water
Specific gravity / density 0.85-0.90 (water = 1)

Flash point -6°C

Danger of explosion no data

Auto-ignition temperature no data

Upper & lower flammable limits no data

Corrosiveness non corrosive

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

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10. **Stability & Reactivity**

Stable Stability

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 Strong oxidisers, bases and diazo compounds.

Substance Specific Incompatibility May attack some plastics, rubber and coatings.

Hazardous decomposition products Oxides of carbon **Hazardous reactions** none known

Toxicological Information

Summary

IF SWALLOWED: can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death.

IF IN EYES: may cause eye irritation, resulting in pain and conjunctivitis,

IF ON SKIN: may cause skin irritation, causing redness, swelling and blistering. This substance can also dry out the skin and cause

IF INHALED: may cause respiratory irritation with coughing, nausea. Inhalation may also cause central nervous system depression with headaches, dizziness, drowsiness, incoordination.

CHRONIC TOXICITY: Prolonged exposure to hydrocarbons can cause nerve damage (CNS) and affect the liver, kidneys and blood. Prolonged exposure to xylene can cause nerve damage (CNS) and affect the liver and kidneys.

Supporting Data

Acute	Oral	Using LD50's for ingredients, the calculated LD50 (oral, rat) for the mixture is between 2000
		and 5000 mg/kg. Data considered includes: Xylene 1590 mg/kg (mouse). Methyl Ethyl
		Ketone 2737mg/kg (rat).
	Dermal	Using LD $_{50}$'s for ingredients, the calculated LD $_{50}$ (dermal, rat) for the mixture is $>$ 5000

mg/kg. Data considered includes: Xylene >1700mg/kg.

Inhaled Using LC₅₀'s for ingredients, the calculated LC₅₀ (inhalation, rat) for the mixture is >20mg/L

ppm. Data considered includes: Xylene 27.6 mg/L (rat, vapour).

The mixture is considered to be an eye irritant. Xylene and methyl ethyl ketone are eye Eye

irritants.

Skin The mixture is considered to be a skin irritant. Xylene and methyl ethyl ketone are skin

irritants

None known.

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

> Mutagenicity No ingredient present at concentrations > 0.1% is considered a mutagen.

Carcinogenicity The mixture is not considered to be a carcinogen. Xylene is classed by IARC as Class 3 -

unclassifiable as to carcinogenicity to humans.

Reproductive / The mixture is considered to be a suspected reproductive or developmental toxicant. **Developmental** Developmental toxicity: xylene, have been shown to cause foetal toxicity in animals at doses

which are maternally toxic. Not expected to impair fertility.

Systemic The mixture is considered to be a suspected target organ toxicant. Xylene: affected organs:

hepatic (liver), Neurological (nervous system), renal (urinary system or kidneys). Methyl ethyl

ketone is classed 6.9B by EPA and may harm the nervous system..

Aggravation of

existing conditions

12. **Ecological Data**

This mixture is not considered harmful towards aquatic organisms.

Supporting Data

Summary

Aquatic

Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is > 100 mg/L and none of the components are considered bioaccumulative or persistent in the aquatic environment. Data considered includes: Xylene 8.5mg/l (48hr, Palaemonetes pugio (Crustacea)), 3.3 mg/l

(96hr, Oncorhynchus mykiss), 10mg/l (72hr, Skeletonema costatum).

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Bioaccumulation

Degradability

Soil

Not bioaccumulative

Readily degradable

No evidence of soil toxicity.

Terrestrial vertebrate This mixture is not considered harmful towards terrestrial vertebrates.

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal method Disposal of this product must comply with 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 Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to

landfill or similar.

14. Transport Information

 $\textbf{Transport according to NZS\,5433\,(Transport of\,Hazardous\,Substances\,on\,Land).\,Considered\,a\,dangerous\,good\,for\,transport.}$

UN number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains

methyl ethyl ketone, xylene)

Class(es) 3 Packing group: II
Precautions: Flammable Hazchem code: 3YE

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 2006.

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.

Labelling No removal of labels and/or decanting of product into other containers can occur.

Emergency plan Required if > 1000L is stored.

Tracking Not required.

Bunding & secondary containment Required if > 1000L is stored. Signage Required if > 250L is stored.

Location test certificate Required if > 100L (containers >5L), 250L (containers ≤5L), 50L (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.

Fire extinguisher If > 250L 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.

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16. Other Information

Abbreviations

Approval Code Approval HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2006

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling 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 Authority (New Zealand)

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

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

LC₅₀ Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (e.g. 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).

STEL 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 day (usually 8h)

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

Unless otherwise stated comes from the EPA HSNO chemical classification information database

(CCID).

EPA Transfer Gazettes

WES 2013

Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ and

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

WES 2002 Workplace Exposure Standards published by the Occupational Safety and Health Service,

Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES referred to under

the Group Standard (HSNO approval) and may constitute a PES.

Other References: Suppliers SDS

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, full formulation details were not available. 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., h azard, toxicological). 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.nzorphone: +6499403080.

