

1. Identification of Substance and Company

Product name	PFL Concrete Cleaner
HSNO approval	HSR002526
Group Standard	Cleaning Products (Corrosive) Group Standard 2006
UN number	1760
Proper shipping name	Corrosive Liquid, Acidic, NOS
DG class	8
Packaging group	III
Hazchem code	2X
Uses	Concrete cleaner
Company	Peter Fell Ltd
Address	81 Patiki Rd, Avondale, Auckland
Telephone	09 828 6460
Emergency telephone	New Zealand National Poisons Centre 0800 764 766

2. Hazard Identification

GHS Classification	Classified as Hazardous according to the Hazardous Substances (Classification) regulations 2001. Classified as Dangerous Goods for transport according to the NZS 5433:2012
Classes	6.1E Substances that are acutely toxic - May be harmful 8.2C Substances that are corrosive to dermal tissue. 8.3A Substances that are corrosive to ocular tissue.

Signal word **DANGER**

Pictograms



Hazard Statements

H303	May be harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Precautionary Statements

Prevention	P102 Keep out of reach of children
	P103 Read label before use
	P260 Do not breathe dust/fume/gas/mist/vapours/spray.
	P264 Wash thoroughly after handling.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response	P101 If medical advice is needed have product container/label at hand
	P310 Immediately call a Poison centre or doctor
	P321 Specific treatment is advised - see first aid instructions.

P363
P301 + P330 + P331
P303 + P361 + P353
P304 + P340
P305 + P351 + P338

Wash contaminated clothing before reuse.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage P405 Store locked up.

Disposal P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

3. Composition/Information on Ingredients

Substances/mixtures

Ingredient	CAS Number	EC Number	Content
BUTYL GLYCOLATE	7397-62-8	230-991-7	5 to 10%
SODIUM METASILICATE	10213-79-3	None	5 to 10%
METHYLATED SPIRITS	-	-	<5%
SODIUM TRIPOLYPHOSPHATE	7758-29-4	231-838-7	<5%
SODIUM HYDROXIDE	1310-73-2	215-185-5	<2%
TRISODIUM PHOSPHATE	7601-54-9	231-509-8	<2%
C.I. SOLVENT BLUE 36	14233-37-5	238-101-9	<1%
EDTA TETRASODIUM SALT	64-02-8	200-573-9	<1%
WATER	7732-18-5	231-791-2	>80%
DOBANIC ACID	-	-	<5%

4. First Aid

Description of first aid measures

Swallowed For advice, contact the National Poisons Centre on 0800 764 766 (0800 POISON) or +643 479 7248 or a doctor (at once). If swallowed, do not induce vomiting.

Eyes If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing

Eye wash facilities Eye wash facilities and safety shower should be available.

Most important symptoms and effects, both acute and delayed

Causes burns

Immediate medical attention and special treatment needed

Treat symptomatically.

For advice in an emergency contact the Poisons Information Centre 0800 764 766 or a doctor at once.

5. Firefighting Measures

Extinguishing Media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Special hazards arising from the substance or mixture

Non-flammable. May evolve toxic gases if strongly heated.

Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Hazchem code

2X

2 Fine water spray

X Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

Environmental precautions

Prevent product from entering drains and waterways.

Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. Storage and Handling

Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

Specific end uses

No information provided

8. Exposure Controls/Personal Protective Equipment

Control parameters
Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Sodium hydroxide	WES (NZ)	--	2 (Peak)	--	--

Biological limits

No biological limit values have been entered for this product.

Exposure controls

Engineering controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE

Eye / Face

Wear splash-proof goggles. When using large quantities or where heavy contamination is likely, wear a faceshield.

Hands

Wear PVC or rubber gloves.

Body

Wear coveralls. When using large quantities or where heavy contamination is likely, wear rubber boots and a PVC apron.

Respiratory

Where an inhalation risk exists, wear a Class P2 (Particulate) respirator.



9. Physical & Chemical Properties

Appearance	Green liquid
Odour	Slight odour
Flammability	Non-flammable
Flash point	Not relevant
Boiling point	100°C
Melting point	0°C
Evaporation rate	As for water
pH	13.5
Vapour density	Not available
Specific gravity	1.06
Solubility (water)	Soluble
Vapour pressure	Not available
Upper explosion limit	Not relevant
Lower explosion limit	Not relevant
Partition coefficient	Not available
Autoignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
Odour threshold	Not available

10. Stability & Reactivity

Reactivity

Carefully review all information provided in section 10.

Chemical stability

Stable under recommended conditions of storage.

Possibility of hazardous reactions

Polymerization is not expected to occur.

Conditions to avoid

Avoid shock, friction, heavy impact, heat, sparks, open flames and other ignition sources.

Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), metals, heat and ignition sources.

Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

11. Toxicological Information

Information on toxicological effects

Acute toxicity Ingestion may result in burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Information available for the ingredients:

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
SODIUM METASILICATE	770 mg/kg (mouse -	--	--
SODIUM TRIPOLYPHOSPHATE	3100 mg/kg (mouse)	--	--
C.I. SOLVENT BLUE 36	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)	--
EDTA TETRASODIUM SALT	1658 mg/kg (rat)	--	--

Skin Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns.

Eye Causes burns. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.

Sensitisation Not classified as causing skin or respiratory sensitisation.

Mutagenicity Not classified as a mutagen.

Carcinogenicity Not classified as a carcinogen.

Reproductive Not classified as a reproductive toxin.

STOT - single exposure Over exposure may result in irritation of the nose and throat, coughing, nausea and inflammation with breathing difficulties.

STOT - repeated exposure Not classified as causing organ damage from repeated exposure. Adverse effects are generally associated with single exposure.

Aspiration Not classified as causing aspiration.

12. Ecological Information

Toxicity	If released to waterways, alkaline products may change the pH of the waterway. Fish will die if the pH reaches 10-11 (goldfish 10.9, bluegill 10.5).
Persistence and degradability	No information provided.
Bioaccumulative potential	No information provided.
Mobility in soil	No information provided.
Other adverse effects	No information provided.

13. Disposal considerations

Waste treatment methods

Waste disposal Neutralise with dilute acid (e.g. 3 mol/L hydrochloric acid) or similar. For small amounts, absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required).

Legislation Dispose of in accordance with relevant local legislation.

14. Transport Information

CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005; NZS 5433:2012, UN, IMDG OR IATA



	LAND TRANSPORT (NZS 5433)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	1760	1760	1760
Proper Shipping Name	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.
Transport hazard class	8	8	8
Packing Group	III	III	III

Environmental hazards No information provided.

Special precautions for user

Hazchem code 2X

EMS F-A, S-B

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Approval code HSR002526

Group standard Cleaning Products (Corrosive) Group Standard 2006

Inventory listings NEW ZEALAND: NZIoC (New Zealand Inventory of Chemicals)

All components are listed on the NZIoC inventory, or are exempt.

16. Other Information

Personal Protective Equipment Guidelines

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Health Effects from Exposure

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds CCID
	Chemical Classification and Information Database (HSNO)
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
EPA	Environmental Protection Authority [New Zealand] GHS
	Globally Harmonized System
HSNO	Hazardous Substances and New Organisms IARC
	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration LD50
	Lethal Dose, 50% / Median Lethal Dose
mg/m ³	Milligrams per Cubic Metre OEL
	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure) STOT-SE
	Specific target organ toxicity (single exposure)
TLV	Threshold Limit Value
TWA	Time Weighted Average

End of SDS