

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: WoodSafe-Exterior
Other names: Not Assigned
Recommended use: Fire rated treatment for timber
Product codes: Not Assigned

Supplier: Fireshield, a division of Fire Protection Coatings Limited
NZBN: 9429041746059
Address: Level 1, 60 Cashel Street, Christchurch 8013, New Zealand
Contact Number: Ph: 0800 FIRESHIELD (0800 347374)
Email: info@fireshieldcoatings.com
Website: www.fireshieldcoatings.com
Emergency Number: Ph: 111- Police, Ambulance and Fire Brigade
Poison Information Centre: Ph: 0800764766

2. HAZARDS IDENTIFICATION

Physical Hazards Classified based on specific concentration limits
Hazard Pictogram Not Applicable
Sign Words Not applicable
Hazard Statements Not applicable

3. COMPOSITION

Mixtures Chemical Name	CAS Number	Classification	Proportion
Phosphoric Acid	7664-38-2	Skin Corr 1B; H314	<2%
Formeldehyde ...%	50-00-0	Acute Tox 3dermal, Acute Tox 3oral, Acute Tox 3vapour, Skin Corr 1B, Skin Sens 1, Muta 2, Carc 1B; H311, H301, H331, H314, H317, H341, H350	<0.1%

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

4. FIRST AID MEASURES

Inhalation: Inhalation of product as a powder or fumes from heated product: let the injured rest at a warm place with fresh air. Contact the doctor if symptoms persist.

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Skin contact:	Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician. Remove contaminated clothes. Allergic reactions can occur in sensitized individuals.
Eye contact:	If dust has come in contact with eyes, do not rub. Remove all solid particles and flush with lots of water.
Ingestion:	Swallowing is unlikely. Rinse nose, mouth and throat with water. Contact a doctor.
Symptoms and effects – acute and delayed:	No further relevant information available.
Notes to physician:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Special hazards:	The product is not hazardous in the flammable sense. Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning.
Firefighting further advice:	Extinguish with materials intended for the surrounding fire. In case of fire use proper breathing apparatus. Wear full protective clothing. Protective measures should be taken regarding other material at the site of the fire.
Hazardous combustion products:	On burning may emit toxic fumes, including oxides of carbon and nitrogen.
Unsuitable extinguishing media:	Among common extinguishing agents there are none that are overtly unsuitable.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Do not inhale dust and avoid contact with skin, eyes and clothes when cleaning up spill. Use recommended safety equipment, see section 8.
Methods and materials for containment and cleaning up:	Collect.
Environmental precautions:	No specific measures need to be taken in the event of normal use. At amounts considered in this case, the product may be released into the natural environment without serious environmental consequences. Large emissions should however be reported to the emergency services and the Environment Agency.
Reference to Other Sections:	See also section 8 and 13.

7. HANDLING AND STORAGE

Handling: Do not inhale dust and avoid contact with skin and eyes. No special requirements on ventilation are necessary for this product. Store this product separately from food items and keep it out of the reach of children and pets. Wash your hands after using the product.

Storage: Do not store above normal room temperature.

Specific end uses: See identified uses in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering control measure: Handle in premises which have modern ventilation standards.

Exposure Controls: In terms of minimizing risks, no special attention is needed for this product besides the general obligations that follow EU directive 89/391 and national occupational legislation.

DNEL Phosphoric Acid (7664-38-2):

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	2 mg/m ³
Consumer	Chronic Systemic	Inhalation	4.57 mg/m ³
Worker	Chronic Local	Inhalation	2.92 mg/m ³
Worker	Chronic Systemic	Oral	0.1 mg/kg bw
Worker	Chronic Systemic	Inhalation	10.7 mg/m ³
Consumer	Chronic Local	Inhalation	0.73 mg/m ³

Eye protection: Wear safety glasses with side shields or safety goggles when sawing or cutting.

Skin/Hand Protection: Wear suitable protective clothing when necessary. Skin protection is normally not needed due to the properties of this product. However, people who are allergic to any of the product's constituents, or who have a tendency to develop allergies, are recommended to wear protective gloves and/or protective clothing if there is a risk of skin contact with the product. Wear protective gloves (EN 374) upon repeated or prolonged exposure. During continuous contact use gloves with a minimum breakthrough time of at least 240 minutes, preferably over 480 minutes. The most suitable protective glove should be chosen in consultation with the glove supplier, taking into account the risk assessment for the specific task and the properties of the chemicals involved. Note that the breakthrough time of the material is affected by the duration of the exposure, temperature conditions, abrasion, etcetera.

Environmental exposure controls: No specific measures needed.

Respiratory Protection: Use appropriate breathing apparatus during sanding and/or other dust forming handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance Form:	Wood.
b) Odour	Not indicated
c) Odour threshold	Not indicated
d) pH	Not indicated
e) Melting point/freezing point	Not indicated
f) Initial boiling point and boiling range	Not indicated
g) Flash point	Not indicated
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	Not indicated
n) Solubility	Not indicated
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

10. STABILITY AND REACTIVITY

Reactivity:	The product contains no substances which can lead to hazardous reactions at normal use.
Chemical stability:	The product is stable at normal storage and handling conditions.
Hazardous reactions:	No hazardous reactions known.
Conditions to avoid:	No data available.
Incompatible materials:	Not indicated.
Dangerous decomposition products:	Upon combustion: carbon monoxide and water will be formed.

11. TOXICOLOGICAL INFORMATION

Respiratory or skin sensitisation:	The product is not classified as sensitizing.
Skin corrosion/irritation:	The product is not classified for skin corrosion/irritation.
Eye contact:	Dust may irritate the eyes, the product is not classified for serious eye damage/eye irritation.
Ingestion:	Not applicable due to the form of the product.
Information on toxicological effects:	Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

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Acute toxicity:	The product is not classified as acutely toxic.	
PHOSPHORIC ACID	LD50 rabbit 24h: 2740 mg/kg	Dermally
	LD50 rat 24h: 2600 mg/kg	Orally
	LC50 rat 2h: 850 mg/l	Inhalation.
FORMALDEHYDE...%	LD50 rat 24h: 203 mg/kg	Orally
Germ cell mutagenicity:	The product contains low levels of mutagenic substance.	
Carcinogenicity:	The product contains low quantities of a carcinogenic substance.	
Reproductive toxicity:	The product is not classified as a reproductive toxicant.	
STOT-single exposure:	The product is not classified for specific organ toxicity after single exposure.	
STOT-repeated exposure:	The product is not classified for specific organ toxicity after repeated exposure.	
Aspiration hazard:	The product is not classified as being toxic for aspiration.	

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No ecological damage is known or expected in the event of normal use.	
PHOSPHORIC ACID	LC50 Bluegill (<i>Lepomis macrochirus</i>) 96h: 78 mg/l	
	EC50 Freshwater water flea (<i>Daphnia magna</i>) 12h: 3.4 mg/l	
	LC50 mosquitofish (<i>Gambusia affinis</i>) 96h: 1 - 3.5 mg/l	
FORMALDEHYDE ...%	LC50 Rainbow trout (<i>Oncorhynchus mykiss</i>) 96h: 1.41 ppm	
	EC50 Freshwater water flea (<i>Daphnia magna</i>) 48 h: 1 - 7.8 mg/l	
Mobility in soil:	Information about mobility in nature is not available.	
Persistence and degradability:	The product degrades in the natural environment.	
Bio accumulative potential:	Neither this product, nor its contents, accumulates in nature.	
Results of PBT and vPvB assessment:	No chemical safety report has been prepared.	
Other adverse effects:	Not indicated.	

13. DISPOSAL INFORMATION

Disposal Methods:	The product is not classified as hazardous waste. This product may be recycled; Contact the distributor for information. Observe local regulations..
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14. TRANSPORT INFORMATION

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable

UN Number:

Not applicable.

Transport hazard class(es)

Not applicable

Packing group

Not applicable

Environmental hazards

Not applicable

Special precautions for user

Not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

Other transport information

Not applicable

Official transport name:

Not applicable.

15. REGULATORY INFORMATION

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

Follow local/national regulations.

Chemical safety assessment Assessment and chemical safety report in accordance with 1907/2006 Annex I.

Not yet been performed

16. OTHER INFORMATION

Fireshield has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside of the Company's control. End users are obliged to conform to relevant Local Government regulations.

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.

Material Safety Data Sheet

Indication of where changes have been made to the previous version of the safety data sheet This is the first version
Revisions of this document

Legend to abbreviations and acronyms used in the safety data sheet**Full texts for Hazard Class and Category Code mentioned in section 3**

Skin Corr	1B Corrosive (Category 1B)
Acute Tox	3dermal Acute toxicity (Category 3 skin)
Acute Tox	3oral Acute toxicity (Category 3 oral)
Acute Tox	3vapour Acute toxicity (Category 3 vapour)
Skin Sens 1	May cause an allergic skin reaction (Category 1)
Muta 2	Suspected genetic defects (Category 2)
Carc 1B	May cause cancer (Category 1B)

List of relevant hazard statements and/or precautionary statements**Full texts for hazard statements mentioned in section 3**

H314	Causes severe skin burns and eye damage
H311	Toxic in contact with skin
H301	Toxic if swallowed
H331	Toxic if inhaled
H317	May cause an allergic skin reaction
H341	Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
H350	May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>

Current Version: 06 September 2021
Revision Information: SDS will be revised every 5 years.
This revision: Updated to meet NZ standards
Previous version dated: -

Disclaimer:

This safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal use of the product described herein. Health and safety precautions in the data sheet may not be adequate for all individuals and/or situations. Users have the responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations. Whilst the information contained in this document is based on data, which, to the best of our knowledge, was accurate and reliable at the time of preparation, no warranty or responsibility can be accepted for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information. The user is responsible for that last revision of this document is used. Please check on www.fireshieldcoatings.com

End of SDS