

SDS No: FSTCTFAU01

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: FIRESHIELD TIMBERCLEAR TOP COAT MATT

Other names: Not Assigned

Recommended use: Clear bio-solvent based top coat for use with Fireshield TimberClear 1FR

intumescent paint for timber

Product codes: Not Assigned

Supplier: Fireshield Coatings, a division of FPC Limited Partnership

ABN: 95 336 533 948

Address: 13 North Concourse Beaumaris Victoria 3193 Australia

Contact Number: Ph: 1800 092 097

Email: info@fireshieldcoatings.com
Website: www.fireshieldcoatings.com

Emergency Number: Ph: 000- Police, Ambulance and Fire Brigade

Poison Information Centre: Ph: 131126

2. HAZARDS IDENTIFICATION

Classified as hazardous according to the Hazardous Chemical Information System (HCIS), classified in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail - 2017.

GHS Classification:

Flammable Liquids: Category 2
 Acute Toxicity (oral): Category 4
 Skin Irritation: Category 2
 Eye irritation: Category 2

- Skin Sensitization: Category 1

- STOT Single Exposure: Category 3 (narcotic effects)

DANGER





Highly Flammable Har

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Prevention Statements:

- P102 Keep out of reach of children.
- P103 Read label before use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- 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.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/eye/face protection.
- P281 Use personal protective equipment as required.

Response Precautionary statements:

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

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 – Refer Section 4 – First aid measures on this Safety Data Sheet

P331 - Do NOT induce vomiting.

P337+P313 - If eye irritation persists: Get medical advice/attention. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 – If skin irritation occurs: Get medical advice/attention. P362 – Take off contaminated clothing and wash before re-use.

P308+P313 - IF exposed or concerned: Get medical advice/ attention.

P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.

P370 + P378 - In case of fire: Use Carbon dioxide, extinguishing powder, foam for extinction

Storage Precautionary statements:

P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405 - Store locked up.

2.3 Other hazards

Health hazard:

Long lasting and repeated exposure to solvent vapors above the limit may result seriously detrimental to health such as mucous membrane and respiratory and may cause permanent nerve damage

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Fire:

Prevent formation of flammable or explosive concentrations of vapor in air. Avoid vapor concentrations above the occupational exposure limits. Ventilate well. Open flame or other ignition sources may not occur. The product may build up electrostatic charges. Ground all equipment. Prevent sparks from static electricity. Operators should wear antistatic footwear and clothing

Physical / Chemical Hazards:

May cause damage to seals, certain painted surfaces, protective grease layers and materials of natural rubber.

3. COMPOSITION INFORMATION

Chemical Substance:	Classification	Amount (%)
Ethyl lactate	CAS-nr: 687-47-8	5 - 25
	Flam. Liq. 3; H226	
	Eye Dam. 1, H 318	
	STOT SE3; H335	
	EG-nr: 211-694-1	
Aliphatic alcohol	Flam Liq. 2; H225	5 - 15
Ester of aliphatic acid	Flam. Liq. 3; H226	5 - 25
	STOT SE3; H336	
	EUH 066	
Ester of aliphatic acid	Flam. Liq. 2 H225	1 - 5
	Eye Irrit. 2H319	
	STOT SE 3, H336	

^{*}The manufacturer confirms that all the above raw materials are listed in AICS.

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (New Zealand 0800 764 766)

Inhalation: Remove person to fresh air. Keep person warm and at rest. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice. If INHALED and symptoms develop, or you feel unwell: call NZ Poisons Information Centre (0800 764 766). Do NOT induce vomiting.

Skin contact: For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Eye contact: If in eyes wash out immediately with water. Seek medical attention.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Most important symptoms and effects: Burns. See section 11 for more detailed information on health effects and symptoms

Notes to physician: Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

Hazchem Code: •3Y

Specific hazards: Flammable liquid and vapour. May form flammable vapor mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapor may travel a considerable distance to source of ignition and flash back. On burning may emit toxic fumes, including oxides of carbon and nitrogen. Avoid all ignition 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.

Firefighting further advice: Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from 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.

Suitable extinguishing media: Alcohol resistant foam is the preferred fire-fighting medium. If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel. If contamination of sewers or waterways has occurred advise local emergency services.

ENVIRONMENAL PRECAUTIONS

Prevent run off into drains, sewers and waterways. If large amount has been spilled, inform relevant authorities. Dispose waste in accordance with local laws.

Dangerous Goods Guide – SAA / SNZ HB 76: 2017

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Read label and safety data sheet before use. Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Keep away from sources of ignition. Ground / bond receiving equipment and use explosion-proof electrical equipment. Take precautionary measures against static discharge. Prohibit eating, drinking and smoking in work areas. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks. Store locked up.

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This material is classified as a Dangerous Good Class 3 Flammable Liquid and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION **DNEL PNFC Ethyl Lactate** 90 mg/m3 (short term-inhalation-workers) 3.2 mg/l water (fresh water) 1.6 mg/m3 (long term-inhalation-workers) 54 mg/m3 (acute-inhalation-general population) 6 mg/m3 (long term-inhalation-general population) Aliphatic Alcohol 1900 mg/m3 (short term-inhalation-general population) 0.96 mg/l water (fresh water) 950 mg/m3 (long term-inhalation-workers) **Ester of Aliphatic Acid** 960 mg/m3 (short term-inhalation-workers) n.a.(fresh water) 480 mg/m3 (long term-inhalation-workers) **Ester of Aliphatic Acid** 1469 mg/m3 (short term-inhalation-workers) 0.26 mg/l water (fresh water)

734 mg/m3 (long term-inhalation-workers)

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too 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.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. Vapor heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapor may have collected. Keep containers closed when not in use.

Personal protection equipment: G: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.

Wear overalls, safety glasses (AS/NZS 1337) and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapor/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapor, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

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^{*}The above data is reproduced directly from the Manufacturer's MSDS published exposure data figures.



9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Varnish with odour of solvents

Solubility: Insoluble in water. Soluble in organic solvents.

Specific Gravity (20 °C): 1.050
Relative Vapour Density (air=1): N Av

Vapour Pressure (20 °C): About 36 mm Hg

Flash Point (°C): 20°C
Flammability Limits (%): N Av
Autoignition Temperature (°C): N Av
% Volatile by Weight: 56%
Melting Point/Range (°C): N Av
Boiling Point/Range (°C): 78 – 154°C

 Decomposition Point (°C):
 N Av

 pH:
 N Av

 VOC (bp <250°C)</th>
 470 g/l

(Typical values only - consult specification sheet)

N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Reactivity: No reactivity hazards are known for the material.

Chemical stability: This material is thermally stable when stored and used as directed.

Hazardous reactions: No known hazardous reactions.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Keep away from oxidizing agent, strongly alkaline and strongly acidic material to avoid exothermic reactions.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

11. TOXICOLOGICAL INFORMATION

There is no data available for the product itself. The preparation has been assessed following the conventional method of the CLP-Regulation (EC) No 1272/2008 and is classified for its toxicological hazards. See Sections 3 and 15 for more details.

Exposure to solvent vapours above the occupational exposure limit may result in adverse health effects such as irritation of the mucous membranes and respiratory system and can cause adverse effects on kidneys, liver and central nervous system. Organic solvents may cause some of the above effects through skin absorption. Other symptoms may include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Repeated or prolonged contact may defat the skin resulting in non-allergic contact dermatitis through skin. Splashes in the eyes may cause irritation and reversible damagere:

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Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Ingestion: Swallowing 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 complications.

Eye contact: May be an eye irritant.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity:

No LD50 data available for the product. Toxicological data of hazardous components are mentioned below -

Toxicity of ingredients:		
Ethyl lactate (687-47-8)	LD ₅₀ Oralt, Rat	>2000 mg/kg (OECD 401)
	LC ₅₀ Inhalation, Rat	>5,4 mg/l/4h (OECD 403)
Aliphatic alcohol	LD ₅₀ Oralt, Rat	>10740 mg/kg (OECD 401)
	LC ₅₀ Inhalation, Rat	>51 mg/l/4h (OECD 403)
Ester of aliphatic acid	LD ₅₀ Oralt, Rat	>14000 mg/kg (OECD 401)
	LC ₅₀ Cutaneous, Rat	>2000 mg/kg
Ester of aliphatic acid	LD ₅₀ Oralt, Rabbit	>4935 mg/kg (OECD 401)
	LC ₅₀ Cutaneous, Rabbit	>2000 mg/kg
Irritation:	Irritant for eyes	
Corrosive effect:	Preparation is not corrosive.	
Sensitisation:	No known risks of allergy, but the drying effects of butyl acetate may contribute to atopic eczema.	
Repeated dose toxicity:	Not known	
Carcinogenicity:	Not known	
Mutagenic effects:	Not known	
Reproductive toxicity:	Not known	
Organ Toxicity:	May cause respiratory irritation, cause drowsiness and dizziness	
Foetal damage:	Not known	
Other information:	Not known	

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12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Product / ingredient name:

Ethyl lactate (687-47-8) LC₅₀ Fish 96h: 320 mg/1 Art: Danio reio

EC₅₀ Daphnia 48h: 683 mg/1 Art: Daphnia Magna

Er50 Algae 96h: 2300 mg/l Art: Pseudokirchnerella sub capit

Aliphatic alcohol LC₅₀ Fish 24h: 11200 mg/1 Art: oncorhymncus mykiss

EC₅₀ Daphnia 48h: 5012 mg/1 Art: ceriodaphnia dubia

Er50 Algae 72h: 275 mg/l Art: clorella vulgaris

Ester of aliphatic acid: LC₅₀ Fish 96h: 184 mg/1 Art: anguilla

EC₅₀ Daphnia 24h: 250 mg/1 Art: daphnia magna

ER₅₀ Algae 72h: 674mg/l Art: algae

Ecotoxicity: No information available.

Persistence and degradability: Readily biodegradable, not bioaccumulative.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with applicable Laws and regulations. Consult State Land Waste Management Authority for disposal.

Disposal Method Since more than two kinds of designated waste is mixed, it is difficult to treat

separately then can be reduction or stabilization by incineration or similar process. If water separation is possible, pre-process with water separation

process. Dispose by incineration.

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

Classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail - 2017.

UN number:1263Proper shipping name:PAINTClass(es)3Packing group:IIPrecautions:Flammable liquidHazchem code:3Y

15. REGULATORY INFORMATION

All ingredients appear on the Australian Inventory of Chemical Substances.

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16. OTHER INFORMATION

AICS Australian Inventory of Chemical Substances

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.

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

population (e.g. daphnia, fish species)

GHS Globally Harmonized System of Classification and Labelling of Chemicals

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

services, especially fire fighters

IARC International Agency for Research on Cancer
LEL/UEL Lower Explosive Limit/ Upper Explosive Limit

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

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test

population (usually rats)

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

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 8 hours)

UN Number United Nations Number
DNEL Derived No-Effect Level

PNEC Predicted No-Effect Concentration

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.

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

Prepared with reference to: Model Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals (2018) and Model Work Health and Safety Regulations (2019) as released by Safe Work Australia.

Current Version: 01 May 2019

Revision Information: SDS will be revised every 5 years.

This revision: New Product

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 by Chemsafety Ltd 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

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