

SAFETY DATA SHEET

Section 1 Identification of the material and the supplier

Product: FramePro™
Other Names:
Product Code:
Product Use: **Timber Preservative**

New Zealand Supplier: **Koppers Performance Chemicals New Zealand**
Address: **14 Mayo Road,
Wiri,
Auckland, New Zealand**

Telephone: (09) 277 7770
Fax Number: (09) 277 8011

Emergency Telephone: 0800 200 162

Date of SDS Preparation: **15 January 2015 – version 6**

Section 2 Hazards Identification

This product is hazardous under the HSNO (minimum degree of hazard) Regulations 2001.

EPA approval No. HSR000907

Pictograms



Irritant Chronic Ecotoxic

Signal Word: DANGER

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Category 4
6.3A	H315	Causes skin irritation.	Category 2
6.4A	H319	Causes serious eye irritation.	Category 2A
6.5A	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Category 1
6.5B	H317	May cause an allergic skin reaction.	Category 1 Category 2
6.8B	H361	Suspected of damaging fertility or the unborn child.	
6.9A (Single exposure)	H370	Causes damage to skin, GI tract, Central Nervous System.	Category 1
6.9A (Repeated exposure)	H372	Causes damage to skin, GI tract, Central Nervous System, liver and kidneys through prolonged or repeated exposure.	Category 1
9.1B	H411	Toxic to aquatic life with long lasting effects.	Category 2
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes, mist, vapours or spray.
P264	Wash hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear; eye protection in the form of goggles; PVC or rubber gloves; PVC boots and overalls should be worn when manufacturing or handling the concentrated product.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection (Type A Organic Vapour Respirator).

Response code	Response Statement
P312	Call a POISON CENTER (0800 764 766) or doctor/physician if you feel unwell.
P321	Specific treatment (see skin exposure treatment on this label).
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER (0800 764 766) or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P304 + P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307 + P311	IF exposed: Call a POISON CENTER (0800 764 766) or doctor/physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code Storage Statement

P405 Store locked up.

Disposal Code Disposal Statement

P501 Dispose of contaminated residues or waste by liaising with a waste disposal company or by disposing at a site approved by relevant local authorities.

Section 3 Composition / Information on Ingredients

Hazardous Ingredients	Wt%	CAS Number
Disodium Octaborate Tetrahydrate	10-30%	12008-41-2
Benzalkonium Chloride	<10%	8001-54-5
Mono Ethylene Glycol	<65%	107-21-1
Basazol Red GRL Liquid	<0.5%	62163-53-5
Water	To 100%	7732-18-5

Section 4 First Aid Measures

Recommended on site emergency facilities:

Ensure an eye-wash and safety showers are available and ready for use.

Routes of Exposure:

IF SWALLOWED: **Rinse mouth.** Call a POISON CENTRE (0800 764 766) or doctor if you feel unwell.

IF IN EYES: Hold eyelids open and rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

IF ON SKIN: Remove contaminated clothing. Wash affected skin immediately with soap and water. Wash contaminated clothes before reuse. Seek medical advice if large area involved or irritation occurs.

IF INHALED: Remove victim to fresh air. Loosen tight clothing and remove any contaminated clothing. Keep victim warm and at rest until recovered. If breathing has stopped, ensure airway is clear and apply resuscitation. Obtain immediate medical attention.

Advice to Doctor:

Treat symptomatically. Early diagnosis and treatment of ingestion is important. Test for correct metabolic acidosis and hypocalcaemia. If evidence of renal insufficiency apply rapid and sustained diuresis with the use of hypertonic mannitol. Evaluate renal status and begin haemodialysis if indicated.

Section 5 Fire Fighting Measures

Hazard Type	Toxic, ecotoxic, non-flammable liquid but will burn in a fire.
Hazards from decomposition products	When heated to decomposition, Benzalkonium Chloride emits very toxic fumes of hydrogen chloride and nitrogen oxides.
Suitable Extinguishing media	Use water spray to cool containers exposed to heat. Use alcohol foam, water fog, dry chemical or carbon dioxide to extinguish fire.
Precautions for fire-fighters and special protective clothing	Remain upwind and notify those downwind of potential hazard. Wear full protective equipment (see section 8) including Self Contained Breathing Apparatus (SCBA) when combating fire.
HAZCHEM CODE	3Z

Section 6 Accidental Release Measures

Ensure that non-protected personnel are removed from the area. Eliminate or isolate the source of leak or spill. Wear appropriate protective clothing as detailed in section 8 of this SDS. Wear splash-proof goggles, PVC/rubber or nitrile gloves, coveralls or protective clothing and boots. Where an inhalation risk exists, wear a Type A (Organic vapour) respirator.

Land Spill or Leaks

This material is highly toxic to the aquatic environment. Do not allow into drains or water-courses. Contain spill by absorbing with sand, earth or other absorbent material. Notify Police or local Health Protection if there is any risk of contamination of water courses. Wash down spill area with copious quantities of water but ensure run off liquid can be safely contained. Transfer contaminated material to suitable drums for disposal. Waste and empty containers must be disposed on it accordance with local government regulations. Dispose of all wastes by liaising with a waste disposal company or by disposing at a site approved by relevant local authorities.

Water Spill or Leaks

This product is toxic to aquatic life with long lasting effects. Serious loss of aquatic life may result. Ensure that non-protected personnel are removed from the area. Eliminate or isolate the source of leak or spill. Endeavour to contain the contaminated water by pumping out to waste tanks. If not feasible, block off all but the main drainage routes for the contaminated plume. Immediately advise the nearest Regional Council Pollution Control office.

Section 7 Handling and Storage

Approved Handlers

Approved Handler requirements are not triggered for this product.

Precautions for safe handling:

- Do not handle until all safety precautions have been read and understood.
- Do not breathe fume, mist, vapours or spray.
- Wash hands and face thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear; eye protection in the form of goggles; PVC or rubber gloves; PVC boots and overalls should be worn when manufacturing or handling the concentrated product.
- Use personal protective equipment as required.
- In case of inadequate ventilation wear respiratory protection (Type A Organic Vapour Respirator).

Conditions for safe Storage:

- Store locked up.
- Store in a dry place away from foodstuffs at all times.
- Store away from sources of heat or ignition.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	CAS # (a)	TWA ppm(b)	mg/m ³ (c)	STEL ppm(b)	mg/m ³ (c)
Borates, tetra, sodium salts	[1303-96-4]				
Anhydrous		-	1	-	-
Decahydrate		-	5	-	-
Pentahydrate		-	1	-	-
Ethylene glycol (vapour & mist)	[107-21-1]		Ceiling 50 ppm (127 mg/m ³)		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.*

Engineering Controls:

Good ventilation is required. Local exhaust should be provided if handled in confined or poorly ventilated areas.

Personal Protective Equipment:

Eyes	Wear eye protection in the form of goggles
Hands and Skin	PVC, rubber or nitrile gloves, PVC boots and overalls should be worn when manufacturing or handling the concentrated product.
Respiratory	A Type A (Organic Vapour) respirator should be used during any spraying operations..
General	At the end of the job, wash gloves and remove, then remove goggles and wash, then remove other protective clothing, finally remove respirator. If using a cartridge type respirator, cartridges should be removed and discarded. If the respirator is disposable, it should be discarded after use. If the respirator is reusable, it should be thoroughly cleaned as per the manufacturer's instruction. Clothing must be changed once contaminated. Protective clothing must be washed after each days work. Contaminated clothing should not be washed with normal household laundry.

Section 9 Physical and Chemical Properties

Appearance	Clear colourless liquid
Odour	Sweet odour
Odour Threshold	N/A
pH	7.0
Boiling Point	>100°C
Melting Point	<0°C
Freezing Point	Not available
Flash Point	Non Flammable
Flammability	Non Flammable
Upper and Lower Exposure Limits	Not applicable
Vapour Pressure	Negligible
Vapour Density	Not available
Specific Gravity	1.232 g/mL @ 20°C
Solubility in water	100%
Partition Coefficient:	Not available
Auto-ignition Temperature	>400°C
Decomposition Temperature	Not available
Volatile component	Not available
Particle Characteristics	Not available

Section 11 Toxicological Information

Toxicity Data:
Product: Oral LD₅₀ (rat) 621.6 mg/kg

Acute Effects:

Swallowed	Harmful if swallowed. May cause an allergic skin reaction.
Dermal	Not applicable.
Inhalation/Respiratory	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye	Causes serious eye irritation.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Systemic	May cause damage to skin, GI Tract, central nervous system, liver and kidneys through single or prolonged or repeated exposure.
STOT/SE	Not applicable.
STOT/RE	Not applicable.
Aspiration	Not applicable.

Section 12 Ecotoxicological Information

HSNO Classifications: 9.1B Toxic to aquatic life with long-lasting effects, 9.3C Harmful to terrestrial vertebrates.

Environmental Precautions

- Avoid release to the environment
- Collect spillages
- Prevent spillages from entering waterways.

Ecotoxicity Data

Individual component data.

Compound	Aquatic ecotoxicity		
	Fish LC ₅₀	Crustacea EC ₅₀ (mg/L)	Algae/plant EC ₅₀ (mg/L)
Disodium Octaborate Tetrahydrate	SPECIES: Oncorhynchus mykiss (Rainbow trout) TYPE OF EXPOSURE: Static DURATION: 24 hr ENDPOINT: LC ₅₀ VALUE: 2.8 g/L/24 hr	ND	ND
Benzalkonium Chloride	SPECIES: Fathead Minnow (Pimephales promelas) TYPE OF EXPOSURE: Static DURATION: 96 hr ENDPOINT: LC ₅₀ VALUE: 0.28 mg/L Bioaccumulative: No Rapidly Degradable: Yes	SPECIES: Daphnia magna (Water flea) TYPE OF EXPOSURE: Static DURATION: 48 hr ENDPOINT: EC ₅₀ VALUE: 5.9 ug/L (= 0.0059 mg/l) Bioaccumulative: No Rapidly Degradable: Yes	SPECIES: Scenedesmus pannonicus (Green algae) TYPE OF EXPOSURE: Static DURATION: 72 hr ENDPOINT: EC ₅₀ VALUE: 80 ug/L (= 0.08 mg/L) Bioaccumulative: No Rapidly Degradable: Yes
Mono Ethylene glycol	SPECIES: Rainbow trout TYPE OF EXPOSURE: Conditions of bioassay not specified DURATION: 96 hr ENDPOINT: LC ₅₀ VALUE: 18500 mg/L	SPECIES: LC50 Brown shrimp (Crangon crangon) TYPE OF EXPOSURE: aerated salt water DURATION: 48 hr ENDPOINT: LC ₅₀ VALUE: > 100 mg/L	ND

Compound	Toxicity to terrestrial vertebrates
Disodium Octaborate Tetrahydrate	SPECIES: Rat, ENDPOINT: LD ₅₀ , VALUE: 2000 mg/kg
Benzalkonium Chloride	SPECIES: Mouse, ENDPOINT: LD ₅₀ , VALUE: 150 mg/kg
Mono Ethylene glycol	SPECIES: Cat, ENDPOINT: LD ₅₀ , VALUE: 1670 mg/kg bw

Environmental Fate

Benzalkonium Chloride: No data available.

Boron Compounds

Terrestrial fate: Persistent for one or more years depending on soil type and rainfall. Less persistent in acid soils. In high rainfall areas leaches rapidly.

ENVIRONMENTAL BIODEGRADATION:

No biotransformation processes have been reported for boron compounds. Borax has been shown to be a mild antiseptic agent with bacteriostatic action.

ENVIRONMENTAL BIOCONCENTRATION: Accumulates in plants.

Mono Ethylene glycol: No data available.

Environmental Exposure Limits No limits set for components of this product at time of preparation of this datasheet.

Section 13 Disposal Considerations

Dispose of contaminated residues or waste by liaising with a waste disposal company or by disposing at a site approved by relevant local authorities.
Ensure waste container is labelled "Hazardous Waste – Ecotoxic"

Section 14 Transport Information

This substance is classified as a dangerous good according to NZS 5433:2012.

Road and Rail Transport

UN No	UN3082
Class-primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
HAZCHEM Code	3Z

Marine Transport

IMDG	Not Listed IMDG 1990
UN No	UN3082
Class-primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Air Transport

UN No UN3082
Class-primary 9
Packing Group III
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Under the NZ Land Transport Rule Dangerous Goods 2007 this product must not be loaded into any container alongside food items.

In Schedule 1 of the Rule a maximum of 250 litres may be transported on land as a tool-of-trade, agricultural use or for commercial purposes without a DG endorsement on the driver's license or vehicle placarding (Class 9 PG111)

Section 15 Regulatory Information

EPA approval No. HSR000907

Hazardous Classifications: 6.1D, 6.3A, 6.4A, 6.5A, 6.5B, 6.8B, 6.9A, 9.1B, 9.3C

HSNO CONTROLS

Trigger quantities for this substance

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L (9.1B)
Emergency Response Plan trigger Quantities	1000L (9.1B)
Secondary Containment	1000L (9.1B)

For quantities over 1000 L there must be secondary containment of at least 110% of the contained volume and an Emergency Response Plan in place.

For quantities of 1000 L or more stored in one place for more than 18 hours there must be HSNO compliant signage (Hazchem) to alert emergency services and others of the hazard on the site.

Restrictions for Use:

No person may use this substance for any purpose other than the treatment of timber.

Section 16 Other Information

1. Best Practice guideline for the safe use of Timber Preservatives and Anti-Sapstain Chemicals, NZTPC Guideline V1.
2. Hazardous Substances Data Bank (HSDB), a database of the National Library of Medicine's TOXNET system (<http://toxnet.nlm.nih.gov>).
3. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been compiled by TCC (NZ) Ltd on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) Ltd has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand proprietor, Koppers Performance Chemicals New Zealand, phone 64 9 277 7770, www.kopperspc.co.nz if further information is required.

Issue Date: 15 January 2015

Review Date: 15 January 2020