



MATERIAL SAFETY DATA SHEET

WOODSAYF FR

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: WOODSAYF FR
Product type: Phosphate-based fire retardant liquid concentrate
Supplier: **TIMBERLIFE (PTY) LTD**
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2. COMPOSITION / INFORMATION ON INGREDIENTS

WOODSAYF FR is a mixture of phosphates, amides and alcohols in water.

Chemical nature and use: WOODSAYF FR is an aqueous, ready-for-use fire retardant formulation for in situ treatment and protection of timber used in building applications against fire.

The chemical composition of WOODSAYF FR enhances absorption and penetration of the formulation into wood. Leachability of the active fire retardant ingredients is also reduced as a result of its chemical reaction with wood cellulose through esterification.

WOODSAYF FR does not alter the colour of wood and after drying the treated wood surface can be coated with a wood finish.

Active ingredient content (expressed as phosphate equivalent) PO₄: 135 g/l (min)

Active ingredient content (expressed as nitrogen equivalent) N: 207 g/l (min)

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3. HAZARD IDENTIFICATION

- Human health effects

Harmful if swallowed.
Causes skin irritation.
Corrosive on repeated contact.
Can cause corrosive damage to eyes.
Can cause irritation of nose, throat and lungs if inhaled.
- Environmental effects

Moderately toxic to both plant and aquatic life
- Physical hazards

Fire could produce irritating and poisonous gases.

4. FIRST-AID MEASURES

Ingestion:

Do not induce vomiting. If conscious, rinse mouth with water and then give large amounts of water. Obtain medical attention.

Skin contact:

Remove contaminated clothing. Wash away with plenty of water. If irritation persists, seek medical attention.

Eye contact:

Wash immediately with plenty of clean water for at least 15 minutes, occasionally lifting upper and lower eye lids. Seek medical attention if irritation persists.

Inhalation:

Remove the patient to fresh air. If respiratory distress is detected, seek medical attention immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Dry chemical, water spray or standard foam.

Protective equipment:

Complete fire service protective equipment, including full face self-contained breathing apparatus.

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Specific methods:

Move containers from fire if possible. Cool exposed containers with water until well after the fire is out. Apply fire-fighting media from as far a distance as possible. Keep unnecessary people away, isolate hazard area and deny entry.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear full protective clothing including breathing apparatus. Provide adequate protective equipment and ventilation. Restrict access to contaminated area.

Environmental precautions:

Prevent spillage from entering drains and watercourses. Dyke run off for safe disposal.

Methods for cleaning up:

Dyke ahead of spill and dig a pit to contain liquid. Recover free liquid and absorb remainder with sand or other non-combustible absorbent material. Transfer to a suitable container (not steel) for disposal.

7. HANDLING AND STORAGE

Handling:

Wear protective clothes such as chemically resistant overalls, gloves and eye protection when handling the concentrate. Wash thoroughly after use. Do not eat, drink or smoke while using the product.

Storage:

Store in sealed plastic containers only. Store in a cool, dry place away from food and foodstuffs. Storage temperatures must not exceed 35°C. Keep out of reach of children, uninformed persons and animals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit:

TWA OEL: Short term = 3 mg/m³.

Personal protection:

Protective clothes such as chemically resistant overalls, gloves and eye protection must be worn when handling the product.

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Engineering measures:

Ensure adequate ventilation in enclosed operations. Use local exhaust ventilation when necessary.

Hygiene measures:

Wash hands thoroughly before eating, drinking or smoking. Wash overalls and clothes regularly.

Have a safety shower and eye wash fountain readily available in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Clear liquid
Odour	:	Slight alcoholic
pH	:	3,0 - 3,5
Density	:	1,16 kg/l @ 20°C
Boiling point	:	100°C
Flash point	:	Non-flammable
Stability	:	Stable under normal conditions
Solubility in water	:	Fully miscible
Decomposition temperature	:	Above 75°C

10. STABILITY AND REACTIVITY

Stability :	Stable when stored at ambient temperatures below 40°C
Conditions to avoid:	Do not store in metal containers
Hazardous decomposition products:	Reacts with alkalis and most metals and release flammable hydrogen. Thermal decomposition may produce toxic fumes of phosphorous oxides and/or phosphine.

11. TOXICOLOGICAL INFORMATION

Acute oral LD 50 (rat)	:	1530 mg/kg
Acute dermal LD 50 (rat)	:	N.A.
Inhalation LD 50 (rat)	:	> 850 mg/m ³ /1 hr
Eye irritation (rabbit)	:	119 mg SEV
Skin irritation (rabbit)	:	595 mg/ 24 hr SEV

12. ECOLOGICAL INFORMATION

No ecological problems are expected when the product is handled and used with due care. At low concentrations the product acts as a plant fertilizer. Toxic to both plant and aquatic life at high concentrations.

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13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with prevailing local regulations pertaining to the disposal of hazardous waste.

14. TRANSPORT INFORMATION

UN Number	:	1805
Hazchem Code	:	2r
EAC	:	60
IMDG Code	:	8194
IMDG Packaging Group	:	III
Marine Pollutant	:	Yes
Class	:	Class 8, Corrosive Group III
Subsidiary Risks	:	None
Tremcard Number	:	82/80G01

15. REGULATORY INFORMATION

EEC Hazard Classification : 8

Compliance with prevailing legislation must be adhered to.

16. OTHER INFORMATION

Please consult the product label before use.

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product.

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