



# TECHNICAL DATA SHEET

## IMPROVED AND REPACKAGED

### 4 Seasons Wood Stain

**4 Seasons Wood Stain** is a Micro-Porous, decorative finish for timber that gives protection against decay and the effects of weathering. It is suitable for both hard and softwoods, internal or external, new or old timber.

**4 Seasons** is a low viscosity liquid that can be applied by brush, roller or spray. It has an optimum drying time to ensure maximum absorption into the timber. This enhances the appearance of the timber grain and leaves a slight sheen finish.

**4 Seasons** is not designed to build up on the surface therefore it will not chip or crack. **4 Seasons** contains a fungicide to prevent mould growth, water repellent to prevent moisture ingress but allows the timber to breathe, along with quality pigments that protect the treatment from the effects of UV degradation. **4 Seasons** is designed to penetrate into the timber this means preservative effect is deeper. All these benefits give long lasting performance and longer periods between maintenance.

#### Preparation

To get best results the timber should be prepared before applying **4 Seasons Wood Stain**. The timber should be clean, dry and free from oil or resin. Some timbers can contain large amounts of resin or wax which can effect drying times. In these instances it is best to wipe the timber with White Spirit before application.

On old timber that may have been previously treated with stains, paint or varnish it is important to remove these coatings to allow the stain to penetrate. Sanding in the direction of the grain will normally be sufficient. If there is algae or lichen growth this should be removed and treated with a surface fungicide before application.

#### Application

**4 Seasons Wood Stain** should be well stirred before application to ensure consistent colour. It can be applied by brush or roller in the direction of the grain. Normally two coats are applied allowing 4-8 hours between coats. After coating timber and for best results, allow to stand for a few minutes and then wipe over with a lint free cloth.

Care should be taken to ensure good absorption on the exposed end grain. Spillages or over painting can be removed with White Spirit.



*Water repellents prevent moisture ingress but allows the timber to breathe, this enhances the life of the stain and the timber, maintenance times are reduced as a result.*



*A Grade One listed building in Leicestershire treated with **4 Seasons** both inside and out.*

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## Maintenance

**4** Seasons Wood Stain will last for at least 5 years in normal service. When maintenance is required it will necessitate a light wash down with a cloth soaked in White Spirit as preparation, followed by one or two coats of **4** Seasons Stain depending on how much degradation of the surface has occurred. **4** Seasons Top Coat may be used to rejuvenate Wood back to the original stain colour or used as a semi-gloss finish.

## Coverage

This will depend on the type of timber but the following guide can be used:-

Softwood sanded: 5 – 12 square metres per litre.  
Softwood sawn: 8 – 15 square metres per litre

Corresponding figures for hardwood will be higher.  
The coverage of the first coat will be lower than subsequent coats



*Our new 2.5l tins makes **4** seasons wood stain more economical for the professional user.*

## Packaging

2.5 litre metal containers.

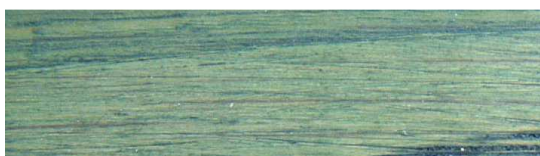
## Colour Range



Antique Oak



Ebony



Spruce Green



Mahogany



*The Stamford window with 4 seasons Antique Oak finish. Brown and Jones of Oakham.*



Teak



White



Walnut



Pine

*The rich colour of **4** Seasons Antique Oak Wood Stain enhances this ornate door.*



# HEALTH & SAFETY DATA SHEET

## Construction Chemicals Four Seasons Timber Stain (all colours)

### 1 IDENTIFICATION OF THE SUBSTANCE & OF THE COMPANY UNDERTAKING.

#### IDENTIFICATION OF THE SUBSTANCE OR PREPARATION:

Four Seasons Timber Stain is an extremely low aromatic, solvent based timber treatment product with a high flashpoint and fungicidal action. Designed for both brush/spray and dip tank treatment. EINECS No: 265-149-8  
CAS No: 64742-47-8

**COMPANY IDENTIFICATION: Construction Chemicals (UK) Limited  
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### 2 COMPOSITION/INFORMATION ON INGREDIENTS:

Iodo propyl butyl carbonate, (3.5%) carried in a petroleum distillate with low aromatic content (less than 1%) and high naphthylene content. Benzene (CAS No: 71-43-2) will normally not be present, but will always be less than the 0.1% w/w marker level in the 21<sup>st</sup> ATP to the Dangerous Substances Directive. Dipcoat/Basecoat is not classified as a carcinogen under 67/ 548/EEC and the UK CHIP Regulations. The formulation includes solvent dryers, dyes and dispersing agents.

### 3 HAZARDS IDENTIFICATION

On the basis of our knowledge Dipcoat/Basecoat is unlikely to be hazardous to man in normal use.

### 4 FIRST AID MEASURES

Ingestion:

Likely to be harmful if swallowed in small amounts. Large quantities may cause nausea and diarrhea. Wash mouth out with water and give water to drink (milk if available) – seek medical advice. DO NOT INDUCE VOMITING BECAUSE OF ASPIRATION.

Skin:

Unlikely to cause irritation on single contact. Prolonged or repeated contact may cause irritation which could result in dermatitis particularly with poor standards of hygiene. Wash skin as soon as possible with soap and water. Change contaminated clothing and launder before use.

Eyes:

Likely to cause irritation with short-term redness and stinging. Wash out immediately with large amounts of water. If redness and/or irritation continues get medical advice.

Inhalation:

May cause irritation to eyes, nose and throat following exposure to mist, vapour or fumes. If inhalation of fumes irritates the nose or throat or causes coughing remove to fresh air. Get medical advice if irritation continues.

### 5 FIRE-FIGHTING MEASURES

Extinguish with dry powder, foam or water fog. For small fires use CO<sub>2</sub>. Note-Typical flash point 67 C.

Do not use water jets. Fires in closed or confined spaces should be tackled by trained personnel who should wear breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Main consideration is to avoid FIRE. Note typical flash point 67 C. May cause slippery surfaces. Contain spillage down drain. Absorb using absorbent clay, diatomaceous clay or other suitable absorbent.

## **HANDLING AND STORAGE**

Handling: As with all mineral oil based products keep skin contact to a minimum and ensure good hygiene standards. Where prolonged or repeated exposure is likely protective clothing should be worn including gloves (nitrile rubber or neoprene) and eye protection. Ensure good ventilation.

Storage: Drums should be stored upright on racks preferably under cover, out of direct sunlight, in well ventilated conditions. Other types of containers should be stored under cover out of direct sunlight, in well ventilated conditions. Care should be taken to avoid over-stacking.

## **EXPOSURE CONTROL/PERSONAL PROTECTION**

Where prolonged or repeated exposure is likely protective clothing should be worn including impervious gloves and eye protection.

Respiratory protection: Unlikely to be required in normal use but ensure good ventilation. It is suggested that exposure is kept within the Occupational Exposure Limits for vapour established by the Reciprocal Procedure for mixed exposures to hydrocarbon solvents HSE Guidance Note EH40.

Long term exposure limits: (8 hour TWA reference period) 1000 mg m<sup>3</sup>

Hand and skin protection: Not essential in normal use but recommended

Eye protection: Eye protection is recommended at all times

## **PHYSICAL AND CHEMICAL PROPERTIES**

Typical properties:

Appearance	Coloured fluid
Density at 15C	0.807
Flash point (IP 303) °C	67
Distillation (IP 123) °C	
IBP °C	200
FBP °C	260
Vapour pressure @ 20°C kPa	<1.0
Benzene % m/m	<0.1
Explosive limits % vol	0.8 – 6.8
Viscosity @ 40°C m <sup>2</sup> /S	1.7 x 10 <sup>6</sup>
Surface tension @ 40°C mN/m	27
Partition coefficient, octanol/water <sup>3</sup>	to >6 for constituents

## **STABILITY AND REACTIVITY**

Conditions to avoid – excess heat (flash point 67°C) on combustion decomposes with evolution of oxides of carbon.

Materials to avoid – may react with strong oxidising materials

Hazardous decomposition products – oxides of carbon. With incomplete combustion – carbon monoxide

## **TOXICOLOGICAL INFORMATION**

Toxicity following a single exposure to high levels of Kerosenes (oral, dermal, inhalation) is of a very low order. Prolonged and repeated contact with kerosene may cause drying of the skin and possibly dermatitis. Prolonged inhalation of mists causes inflammation of the lungs.

## **ECOLOGICAL INFORMATION**

Persistence and degradation: rapidly broken down by hydroxyl radicals in the troposphere. Ecotoxicological studies have shown a very low order of toxicity with this type of material.

LC50 (96 hr) Fish >1000ppm

EC50 (25 hr) Daphnia > 250ppm

IC50 (72 hr) Algae 20 ppm

## **DISPOSAL CONSIDERATIONS**

Disposal by incineration or by methods approved by Local Authorities.

## **TRANSPORT INFORMATION**

HAZCHEM CODE: None (voluntary 3/Z)  
IMCO Hazard class: Not classified  
ICAO: Not classified  
ADR: Not classified

## **REGULATORY INFORMATION**

Risk phrases: Classified as dangerous under the 21<sup>st</sup> ATP of the Dangerous Substances Directive, 67/548/EEC due to the aspiration hazard.  
Classification: Harmful  
Symbol: Black st, Andrew's cross on orange background

Risk Phrases:

R65 Harmful – may cause lung damage if swallowed

Safety Phrases:

S2 Keep out of the reach of children

S23 Do not breathe vapour

S24 Avoid contact with skin

S43 In case of fire use foam, dry powder, AAF, CO<sub>2</sub> – NEVER USE WATER

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

## **16 OTHER INFORMATION**

For use only as a wood preservative. Statutory conditions relating to use.

The (COSHH) Control of Substances Hazardous to Health Regulations 1988 may apply to the use of this product at work.

For use only by professional operators. Avoid naked flames and hot surfaces. Engineering controls or operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment. Wear suitable protective clothing (overalls) and synthetic rubber/pvc gloves when using. Avoid excessive contamination of overalls and launder regularly

Do not breathe spray mist otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS (G) 53: "Respiratory Protective Equipment - a practical guide for uses"),

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection. When using do not eat, drink or smoke. Extremely dangerous to fish and other aquatic life. Do not contaminate watercourses or ground. Remove or cover fish tanks and bowls before application. This material and its container must be disposed of in safe way. Cover water storage tanks before application. Remove or cover foodstuffs before application. Do not apply to surfaces on which food is prepared. Unprotected persons and animals should be kept away from treated areas for at least 72 hours and until surfaces are dry. Do not use on bee hives or beekeeping equipment.

Bats are protected under Wildlife and Countryside Act 1981. Before treating any structure used by bats consult English Nature, Scottish National Heritage or the Countryside Council for Wales.

This product is approved under the Control of Pesticides Regulations 1986 for use as directed HSE No 4014.

## **LEGAL NOTICE**

The information in this Data Sheet applies only to the products designated herein and produced or supplied by Construction Chemicals (UK) Limited. It is based on our experience and on the data available to us at the time of its issue and is accurate to the best of our knowledge. The customer is strongly advised to observe and ensure that its employees and customers observe all directions contained herein. However, no warranty is made or implied that the information is accurate or complete and no liability will be accepted whatsoever (other than liability in respect of the matters referred to in Section 2, Unfair Contract Terms Act 1977) arising out of the use of the information or the products designated herein. Where third party products are used in conjunction with or instead of products produced or supplied by Construction Chemicals (UK) Limited, the customers should themselves obtain all necessary Technical and Health and Safety information about such products from the third party.