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LAN TECH – 04 / 2004

**HSE
APPROVED FORMULA**

**THE MODERN REPLACEMENT
FOR TRADITIONAL CREOSOTE**

**EXTERIOR
WOOD PRESERVATIVE**

LANGLOW CREOSOTE SUBSTITUTE is available as either a DARK or LIGHT coloured solution and retains many of the properties associated with traditional Creosote. It is formulated to be just as effective when applied to exterior timbers such as garden sheds, fences and trellis work, improving surface water repellency to restrict weather damage and protecting against fungi which damages the surface appearance of timber by the inclusion of the non-toxic HSE approved active ingredient, Dialkyl Dimethyl Ammonium Chloride. The Dark or Light, heavy oil-based properties of this product improve the grain definition of treated timbers and retain the characteristic odour familiar to all Creosote users.

Ensure all Garden timbers are structurally sound, dry and free from surface growths of moss, lichen and algae. Care should be taken to protect all valuable plants and foliage from contact with the product during application. Children and pets should also be kept away from treated timbers until they are completely dry. Timbers previously treated with traditional Creosote or a solvent based wood preservative will readily accept being re-treated with CREOSOTE SUBSTITUTE, however sealed or painted timbers should be stripped back to bare wood before coating with this product.

CREOSOTE SUBSTITUTE can be applied by brush, spray or dip methods using consecutive coats to achieve a deeper colour shade where necessary. Use a broad bristled brush and apply evenly, soaking the timbers to refusal to achieve best results. Spray applications should be made with a coarse droplet spray nozzle held within 300mm of the treated timber at all times to limit wastage and reduce the risk of contaminating surrounding plants and structures. Always pay extra attention to ensuring exposed end-grain timbers are fully saturated. For timbers being set in the ground it is recommended to over-coat the submerged section with Bitumen Paint to protect against groundwater saturation.

Depending upon the texture and porosity of the timber to be treated, CREOSOTE SUBSTITUTE when applied as single coat will cover at the rate of 1 litre per 6 to 8 square metres, either by brush or spray application method.

This product is approved for amateur use under the Control of Pesticides regulations 1986 – **HSE No. 7834** for use as directed.

CONTAINS DIALKYL DIMETHYL AMMONIUM CHLORIDE @ 0.48 % w/w [4.45 g/l] and a blend of organic solvents.

EC Classification – HARMFUL & DANGEROUS FOR THE ENVIRONMENT

HARMFUL – May cause lung damage if swallowed;

Toxic to Aquatic organisms, May cause long-term adverse effects in the aquatic environment.

Keep out of reach of children

Keep away from food, drink and animal feeding stuffs

Wash hands and exposed skin, before meals and after use.

Wash splashes from skin and eyes immediately.

Keep in original container tightly closed, in a safe place.

CREOSOTE SUBSTITUTE is available in 4 litre & 25 litre poly bottles and 205 litre & 5 US gallon Export drums.

Store in cool, well-ventilated conditions away from direct sources of heat or ignition.

For transport purposes CREOSOTE SUBSTITUTE is classified as UN 1306 – Wood Preservative, Packing group III.

Should further more specific technical information be required, contact the Palace Technical helpline on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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& CREOSOTE SUBSTITUTE

SUBSTANCE IDENTIFICATION:			
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COMPOSITION: Dialkyl Di-methyl Ammonium Chloride @ 0.48 % w/w, blended with aliphatic and aromatic hydrocarbon oils and bitumen solution. CAS – 68814-87-9 CAS - 97722-01-5 CAS - 64742-94-5		HAZARDS CLASSIFICATION: HARMFUL May cause lung damage if swallowed; Harmful to aquatic organisms; May cause long-term adverse effects in the aquatic environment. Irritating to eyes respiratory system and skin. Keep out of reach of children. Keep away from sources of ignition – No smoking. If swallowed do not induce vomiting – seek medical assistance. Do not breathe vapour. Avoid contact with skin and eyes.	
FIRST AID MEASURES:			
INHALATION: Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention.	SKIN CONTACT: Wash off skin with warm soapy water. Remove contaminated clothing and launder regularly. Where irritation to skin is apparent seek medical attention.	INGESTION: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet.	EYE CONTACT: Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.
FIRE FIGHTING MEASURES:			
Recommended extinguishers – Dry powder; Foam, C02 – Do not use water jets. Hazardous decomposition when subject to combustion – will produce noxious, irritating fumes. Special procedures – Use approved self-contained breathing apparatus. Only use a fine water spray to cool down heat affected containers – not burning product.			
ACCIDENTAL RELEASE MEASURES:			
Ventilate area and eliminate all sources of ignition. Absorb and scrape spillages onto sand, sawdust or absorbent granules and confine residues in a clearly marked sealed container for disposal in accordance with Local Authority regulations for flammable products. Protective Equipment section for advice when handling spillages.			
HANDLING & STORAGE:			
Handling: Ensure adequate ventilation and use all recommended personal protective equipment Storage: Store in well-sealed, clearly marked containers. Keep out of reach of children in a cool well-ventilated environment preferably within a lockable metal cabinet.			
EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT:			
Occupational Exposure limit: 770mg/M3 for 8hr TWA or 1000mg/M3 for 15 min TWA for Hydrocarbon components –			
Respiratory: Good ventilation is required otherwise use an organic vapour filtered face mask in confined spaces.	Hand: Wear 17" long elbow length latex rubber (chlorinated) or nitrile gloves approved to EN 374 & EN 420 with a BTT rating of > 4 hrs.	Eye: BS 2092 Goggles should be worn for all applications to help prevent accidental face/eye contact	Skin: A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately.

PHYSICO-CHEMICAL PROPERTIES:		
Appearance – Dark Brown liquid Boiling point range – 180 – 350°C Water solubility – < 1% Solubility in water Phenol content < 5% w/w Specific gravity 0.92 – 0.97 @ 20°C. Miscibility – solvents and oils	Vapour pressure – 4.4 kPa Odour – characteristic naphthalene. Flash point: 56 - 60°C NON-FLAMMABLE Vapour pressure (air =1) – 2.1. Viscosity < 175 cSt Flammability – N/A	
STABILITY & REACTIVITY:		
Stable – No dangerous chemical reactions known – hazardous polymerisation will not occur. Materials to avoid – Oxidising agents; Conditions to avoid – sources of ignition.		
TOXICOLOGICAL INFORMATION:		
Routes of exposure – Inhalation, skin contact and ingestion. Health effect – prolonged inhalation may cause headaches and Depression of the CNS. Acute effects of inhalation – coughing and eyes watering. Acute effects of skin contact – redness, irritation and sensitisation.		
Acute toxicity: Skin irritation Corrosivity: N/A	Sensitisation: dermatitis Mutagenicity: n/a	Carcinogenicity: n/d Reproductive toxicity: n/a
ECOLOGICAL INFORMATION:		
Bio-accumulative potential – negligible (no data available). Ecotoxicity: No data available Environmental Persistence – No data available, although oils are expected to be inherently biodegradable		
DISPOSAL CONSIDERATIONS:		
Dried residues are non-hazardous and non-flammable, although cloths used to apply the product will retain a flammability risk until they are either laundered or allowed to dry completely. Unused product and freshly contaminated application materials must be considered flammable and disposed of in accordance with local authority regulations for flammable liquids / paints.		
TRANSPORT INFORMATION:		
IMDG: WOOD PRESERVATIVES, LIQUID, CLASS 3, UN 1306, PG III, (59°Ccc), MARINE POLLUTANT IATA / IACO: Class 3; Packing Group III; ADR / RID: UN 1306 WOOD PRESERVATIVES, LIQUID, 3, PG III Transport Name (UK Road) – WOOD PRESERVATIVES, LIQUID EAC No/HIN No: 3Y/30		
REGULATORY INFORMATION:		
This product is approved under the control of pesticides regulations HSE No. 7834 - Contains 0.48% w/w Dodecyl Benzalkonium Chloride CHIP Hazard symbols: R52, R53, R65, R66 – Harmful Safety phrases: S2 – S16 – S24 – S25 - S37 - S60 - S62.		
		
		
FURTHER INFORMATION:		
The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work.		