



ECOLOGY FUNGICIDE INSECTICIDE

Issue – EFI/0203

**WATER-BASED
LOW ODOUR**

**DUAL ACTIVE
FUNGICIDE INSECTICIDE**

**2 LITRES DILUTES
TO GIVE 25 LITRES R.T.U**

DESCRIPTION:

A concentrated micro-emulsion based dual active fungicide Insecticide, designed for the prevention and eradication of wood rotting fungi and wood destroying insects, incorporating the low toxicity fungicide, **Tri [Hexylene Glycol] Bi-borate** and the contact insecticide **Cypermethrin**. It's concentrated, water-based emulsion system is approved for use under the HSE control of pesticides regulations and is ideally suited for treating interior spaces such as roof voids where the risk of flammability from a solvent-based product is undesirable. This a water-dilutable system reduces airborne odours to a barely perceptible level, but remains stable for only about 48 hours after dilution therefore should be readily consumed once mixed.

PREPARATION:

The product is supplied as a concentrate to be diluted with water by adding 1 part of concentrate to 11.5 parts of water, such that 2 litres will yield 25 litres of ready-to-use wood preserver. Ensure all timber surfaces are clean and free from previously applied painted coatings and are in a condition, which readily allows the treatment to penetrate. In large-scale applications, where there are signs of previous infestation, a full structural assessment will be necessary to determine any timbers, which are irreversibly decayed and therefore in need of replacement before treatment begins.

APPLICATION:

Apply the diluted product using either a brush or low-pressure spray pack, giving a coarse droplet application. The timber should be saturated to refusal, paying particular attention to exposed grain ends and ensuring locations such as sub-floor joists and reverse stairboards are exposed to allow sufficient access for a completely effective treatment.

COVERAGE:

Ready to use ECOLOGY FLUID when diluted will cover at the rate of about 3 to 4 square metres of timber surface per litre, making a single 2 litre pack sufficient to cover a maximum of 100 square metres of exposed timber. Coverage rate will depend greatly upon the texture, shape and porosity of the wooden structure being treated. As a general guide it has been found that the roof void timbers in a typical large three bed semi-detached property will require up to 3 x 2 litre packs of ECOLOGY FLUID for a fully comprehensive treatment of all roof timbers. To hasten drying times, provide as much natural ventilation as possible into the treated area.

PRECAUTIONS:

FOR USE ONLY AS A WOOD PRESERVATIVE. Engineering controls of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment. Wear suitable protective clothing (coveralls) rubber/PVC gloves, plus eye protection. Avoid excessive contamination of PPE and launder regularly. Do not breathe spray mist, otherwise wear suitable respiratory protective equipment. When using do not eat drink or smoke. This product is extremely dangerous to fish and other aquatic life. Do not contaminate watercourses or ground. Do not apply to surfaces on which food is prepared. Cover water storage tanks before application. Unprotected persona and animals should be kept away from treated surfaces for at least 48 hours after application and until surfaces are dry. Do not use on beehives or beekeeping equipment. Before treating any structure used by Bats, consult English nature, Scottish natural heritage or the countryside council for Wales.

This product is approved under the Control of Pesticides Regulations 1986, for use as directed under label instructions carrying HSE No. 3792. Consult all statutory precautions on the pack label before proceeding to use this product

Concentrate Contains: Tri [Hexylene Glycol] Bi-borate – (44.25% w/w); Cypermethrin – (1.25% w/w).

STORAGE & PACKAGING:

Store in sealed dry conditions, out of reach of children and away from extreme sources of heat.

Dispose of empty containers in a manner, which renders them useless for any other containment application. Consult the ECOLOGY FUNGICIDE INSECTICIDE material safety data sheet for advice on handling and safety procedures.

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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SUBSTANCE IDENTIFICATION: ECOLOGY FUNGICIDE INSECTICIDE Aqueous-emulsion concentrate (1 to 11.5)			
COMPOSITION; Cypermethrin – 1.25% w/w Tri [Hexylene Glycol] Biorate – 44.25% w/w Anionic / Nonionic emulsification agents. Water		HAZARDS CLASSIFICATION: HARMFUL if swallowed. This product is approved under the control of pesticides regulations for use as directed HSE No. 3792.	
FIRST AID MEASURES:			
INHALATION: Avoid working in a spray mist. If inhaled, clear out mouth with clean water and seek medical attention. If irritation or breathing difficulties persist, seek medical attention.	SKIN CONTACT: Wash off skin with warm soapy water. The dilution will not cause irritation, but prolonged and unattended contact with the concentrate should be avoided.	INGESTION: Clean out mouth with copious volumes of water. Do not induce vomiting. 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: This product is a NON-FLAMMABLE water based concentrate.			
ACCIDENTAL RELEASE MEASURES: Absorb spillages on sand, sawdust or absorbent granules and confine residues in a clearly marked sealed container for disposal in accordance with Local Authority regulations for low-hazard pesticides.			
HANDLING & STORAGE: Store in sealed, clearly marked containers either as a concentrate or in its diluted form. Keep out of reach of children in a cool well ventilated environment – Protect from frost.			
EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: Always read and follow the statutory precautions shown on the concentrate label. Notify persons in the vicinity of any treatment as to when access will be restricted. All treated areas should be kept free from unprotected persons and animals for up to 8 hours after initial treatment or longer until surfaces are dry.			
Respiratory: Good ventilation is always recommended when applying this product. In confined spaces respiratory equipment with organic vapour filter is advised.	Hand: Wear 17" long elbow length heavy duty natural rubber gloves or gauntlets approved to EN 374 & EN 420.	Eye: Splash proof BS 2092 Goggles are advised wherever there is a risk of liquid adhesive entering the eyes e.g. during overhead work.	Skin: Wear a disposable plastic apron or overalls, which should be laundered after use if contaminated. Waterproof safety boots/shoes are also recommended.

SAFETY DATA SHEET No. EFI40

PRODUCT: ECOLOGY FUNGICIDE INSECTICIDE

PHYSICO-CHEMICAL PROPERTIES:		
Appearance – Translucent pale amber liquid – Ph – 5.5 to 8.5 Density – 0.95 Odour – lemon oil Viscosity - < 50cps as concentrate, water thin when diluted.	Milky white when diluted with water at 1 to 11.5. Miscibility – Water only Boiling point - < 101°C Flash point - n/a Vapour pressure - n/a Explosive limits - n/a	
STABILITY & REACTIVITY: Prolonged storage at low temperatures (<5°C for > 6 months) may result in the product becoming cloudy, but no less effective.		
TOXICOLOGICAL INFORMATION: LD50 – 1250mg/kg for aqueous emulsions of Cypermethrin tested on rats. Tri [Hexylene Glycol] Biorate is a fungicide of relatively low mammalian toxicity - Oral LD50 rat - n/a		
Acute toxicity: n/a Corrosivity: N/A	Sensitisation: n/a Mutagenicity: n/a	Carcinogenicity: n/a Reproductive toxicity: n/a
ECOLOGICAL INFORMATION: Extremely dangerous to fish – do not contaminate watercourses, ponds, ditches with this product or it's used container. Do not use on beehives or bee-keeping equipment.		
DISPOSAL CONSIDERATIONS: Dispose according to Local Authority regulations for aqueous, low hazard wood preservatives and contact insecticides. Do not dispose of this product or it's container as general household waste.		
TRANSPORT INFORMATION: Not subject to CPL / ADR restrictions When transporting overseas, classify as IMO Class 3.3 – Marine pollutant.		
REGULATORY INFORMATION: R22 - HARMFUL IF SWALLOWED Safety phrases - S2 - S24/25 - S29 - S46 - S49 - S62 - S64 This product is approved under the control of pesticides regulations 1986 for use as directed HSE No. 3792 . The use of this product at work will be subject to an assessment in accordance with the 1994 COSHH regulations.		
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.		