

# ZEROflame™ COMPONENT A BASE COAT

## HEALTH AND SAFETY DATA

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

**Product:** Zeroflame Base Coat (Component A) is a component of a two coat varnish system which achieves Class 0 and Class 1 Fire Propagation and Spread of Flame fire protection on timber and timber derived substrates.

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### 2. HAZARDS IDENTIFICATION

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification:** R43  
**Human Health Hazards:** May cause sensitization by skin contact.

### 3. COMPOSITION OF PREPARATION

Name	CAS No.	Symbol and Risk	% by Weight
Methanol	000067-56-1	F; R11, T; R23/24/25, R39/23/24/25	1-5
Formaldehyde...0.1-1%	000050-00-0	Carc. Cat. 3; R40, T; R23/24/25, C; R34, R43	<0.5

### 4. FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. Get medical attention if symptoms appear.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation occurs.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Non-combustible. Use an extinguishing agent suitable for the surrounding fire.

## 5. FIRE FIGHTING MEASURES cont...

### Special exposure

**hazards:** No specific hazards.

### Hazardous thermal

**decomposition products:** In a fire, the following may be released: carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>, etc.), hydrogen cyanide (HCN).

**Protection of fire-fighters:** Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Protection:** Immediately contact emergency personnel. Use suitable protective equipment (section 8).

**Environmental Precautions:** Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Methods for disposal:** If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredient Name	Occupational Exposure Limits
<i>Methanol</i>	<b>EH40-WEL (UK, 2005).</b> Skin TWA: 266 mg/m <sup>3</sup> 8 hour(s).
<i>Formaldehyde...0.1-1%</i>	<b>EH40-WEL (UK, 2005).</b> TWA: 2.5 mg/m <sup>3</sup> 8 hour(s).

**Prevention of Exposure:** Spray – Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.

**Respiratory Protection:** A respirator is not needed under normal and intended conditions of product use. Spray – Wear appropriate respirator when ventilation is inadequate.

**Hand Protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hour(s) (breakthrough time): Impervious gloves.

**Eye Protection:** Safety glasses. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

**Skin Protection:** Protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Liquid (Clear)      **Odour:** Faint odour

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## 9. PHYSICAL AND CHEMICAL PROPERTIES cont...

<b>pH:</b>	7 (neutral)	<b>Boiling point/boiling area:</b>	>100°C
<b>Flash point:</b>	Closed cup: > 60°C	<b>Flammability:</b>	Non-flammable
<b>Relative Density:</b>	1.2 g/cm <sup>3</sup>	<b>Solubility:</b>	Easily soluble in cold and hot water, methanol, acetone
<b>Auto-ignition temp.:</b>	>400°C		
<b>Melting point:</b>	>0°C		

## 10. STABILITY AND REACTIVITY

The product is stable. Avoid low temperatures. Avoid strong oxidizing materials, strong acids, alcohols and amines. In a fire, carbon oxides (CO, CO<sub>2</sub>) and nitrogen oxides (NO, NO<sub>2</sub>, etc.), nitrogen cyanide (HCN) may be released.

## 11. TOXICOLOGICAL INFORMATION

May cause skin irritation. May cause sensitization by skin contact. May cause eye irritation.

## 12. ECOLOGICAL INFORMATION

Inherently biodegradable. Do not allow to enter drains or watercourses.

## 13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. The classification of the product may meet the criteria for a hazardous waste.

## 14. TRANSPORT INFORMATION

This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

## 15. REGULATORY INFORMATION

<b>Risk phrases:</b>	R43: May cause sensitization by skin contact.
<b>Safety phrases:</b>	S24: Avoid contact with skin. S26: After contact with skin, wash immediately with plenty of soap and water. S28: After contact with skin, wash immediately with plenty of soap and water. S36/37: Wear suitable protective clothing and gloves. S46: If swallowed, seek medical advice immediately and show the container or label.
<b>Product use:</b>	Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

## 16. OTHER INFORMATION

**Full text of risk phrases quoted in Sections 2 and 3:**

R11: Highly flammable.

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## 16. OTHER INFORMATION cont...

- R40: Limited evidence of a carcinogenic effect.  
R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.  
R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
R43: May cause sensitisation by skin contact.  
R66: Repeated exposure may cause skin dryness or cracking.  
R67: Vapours may cause drowsiness and dizziness.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications referred to in Sections 2 and 3:**

- Carc. Cat. 3: Carcinogen Category 3.  
T: Toxic  
C: Corrosive

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