

# ZEROflame™ CLEAR FINISH

## HEALTH AND SAFETY DATA

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

**Product:** Zeroflame Clear Finish 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.

**Company:** Decor Ireland, 58 Trench Road, Mallusk, NEWTOWNABBEY, BT36 4TY  
Tel: +44 (0)28 9083 4910  
Email: info@decorireland.com

### 2. HAZARDS IDENTIFICATION

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

**Classification:** R10, R66, N; R51/53  
**Physical/Chemical Hazards:** Flammable  
**Human Health Hazards:** Repeated exposure may cause skin dryness or cracking  
**Environmental Hazards:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION OF PREPARATION

Name	CAS No.	Symbol and Risk	% by Weight
<i>Naphtha (Petroleum), Hydrosulfurised Heavy</i>	064745-82-1	R10, Xn; R65,R66,N; R51/53	40-50
<i>Naphtha (Petroleum), Hydrotreated Heavy (Benzene Free &lt;0.1%)</i>	064742-48-9	R10,Xn; R65,R66, R67	1-5
<i>1,2,4-Trimethylbenzene</i>	000095-63-6	R10,Xn; R20,Xi; R36/37/38, N; R51/53	1-5
<i>2-Butanone Oxime</i>	000096-29-7	Carc. Cat. 3; R40, Xn; R21, Xi; R41, R43	<1
<i>Mesitylene</i>	000108-67-8	R10, Xi; R37, N; R51/53	<0.5

### 4. FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**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.

#### 4. FIRST AID MEASURES cont...

- 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:** In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>. Do not use water jet.
- Special exposure hazards:** Flammable liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- 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.)
- 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. Eliminate all ignition sources. Keep unnecessary personnel away. 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) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate 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:** Use only with adequate ventilation. Keep away from heat, sparks, and flame. Avoid contact of spilt material and runoff with soil and surface waterways.
- Storage:** Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Store in original sealed containers at temperatures between 5° and 30°C.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredient Name	Occupational Exposure Limits
<i>Naphtha (Petroleum), Hydrosulfurised Heavy</i>	<b>EU OEL (Europe, 2005).</b> TWA: 600 mg/m <sup>3</sup> 8 hours(s).
<i>Naphtha (petroleum), Hydrosulfurised Heavy (Benzene free &lt;0.1%)</i>	<b>EU OEL (Europe, 2005).</b> TWA: 1000 mg/m <sup>3</sup> 8 hours(s).
<i>1,2,4-Trimethylbenzene</i>	<b>EH40-WEL (UK, 2005).</b> TWA; 125 mg/m <sup>3</sup> 8 hour(s).

**8. EXPOSURE CONTROL cont...**

<b>Prevention of Exposure:</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
<b>Respiratory Protection:</b>	Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with organic vapour cartridge. Respirator selection must be based on known or anticipate exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Hand Protection:</b>	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. 4-8 hour(s) (breakthrough time): nitrile rubber, polyvinyl alcohol (PVA) or Viton.
<b>Eye Protection:</b>	Safety glasses. Chemical splash goggles. 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.
<b>Skin Protection:</b>	Protective clothing. Repeated or prolonged contact with irritants may cause dermatitis.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Liquid (Clear)	<b>Odour:</b>	Aromatic
<b>Boiling point/boiling area:</b>	>145°C	<b>Flash point:</b>	Closed cup: > 38°C
<b>Flammability:</b>	Flammable	<b>Relative Density:</b>	0.93 g/cm <sup>3</sup>
<b>Solubility:</b>	Insoluble in cold water	<b>Auto-ignition temp.:</b>	>240°C

**10. STABILITY AND REACTIVITY**

The product is stable. Combustible when exposed to heat or flame. Avoid alcohols and amines. In a fire, carbon oxides (CO, CO<sub>2</sub>) and nitrogen oxides (NO, NO<sub>2</sub>, etc.), may be released.

**11. TOXICOLOGICAL INFORMATION**

Defatting to the skin. Irritates skin and eyes. Does not cause cancer.

**12. ECOLOGICAL INFORMATION**

Toxic to aquatic organisms, may cause long-term effects in the aquatic environment. Not readily 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**

**UN Number:** 1263

## 14. TRANSPORT INFORMATION cont...

**Proper shipping name:** Paint related material

**Class:** 3

**Packing group:** III

**Additional info:** Emergency schedules (EmS) F-E, S-E

## 15. REGULATORY INFORMATION

**Risk phrases:** R10: Flammable. R66: Repeated exposure may cause skin dryness or cracking. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:** S23: Do not breathe vapour/spray. S26: After contact with skin, wash immediately with plenty of soap and water. S29: Do not empty into drains. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S38: In case of insufficient ventilation, wear suitable respiratory equipment.

**Product use:** Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the product use.

## 16. OTHER INFORMATION

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

R10: Flammable.  
 R40: Limited evidence of a carcinogenic effect.  
 R20: Harmful by inhalation.  
 R21: Harmful in contact with skin.  
 R65: Harmful: may cause lung damage if swallowed.  
 R41: Risk of serious damage to eyes.  
 R37: Irritating to respiratory system.  
 R38: Irritating to skin.  
 R36/37/38: Irritating to eyes, respiratory system and skin.  
 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.  
 Xn: Harmful.  
 Xi: Irritant.  
 N: Dangerous for the environment.

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Telephone: BELFAST (028) 9083 4910 DUBLIN (01) 840 3969

Fax: BELFAST (028) 9083 4919 DUBLIN (048) 9083 4919

Email: [info@decorireland.com](mailto:info@decorireland.com)