



## HEALTH AND SAFETY DATA

According to Regulation (EU) 2015/830 (REACH) amending Regulation. (EC) No 1907/2006

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

- 1.1 Product:** Zeroflame Fire Retardant Treatment is an aqueous solution which achieves Class 0 Fire Propagation & Spread of Flame Protection on solid timber.
- 1.2 Company:** Decor Ireland Ltd T/A Relay Global, 9 Rathdown Close, Lissue Industrial Estate West, LISBURN, BT28 2RB  
Tel: +44 (0)28 9262 0300  
Email: [info@relay.global](mailto:info@relay.global)

### 2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**  
Not classified hazardous for human health and for the environment.
- 2.2 Label elements**  
Labelling according to Regulation (EC) n° 1272/2008 (CLP).
- 2.2.1 Hazard pictogram(s)** N/A  
**Signal word** N/A
- 2.2.2 Hazard Statements** N/A
- 2.2.3 Precautionary statements** N/A
- 2.3 Other hazards** N/A

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Mixtures**  
Non-hazardous ingredients

Name	Product Identifier	%	Classification according to Directive 67/548/EEC
<i>Iron orthophosphate</i>	<i>CAS number: 10045-86-0 EC number: 233-149-7 REACH registration number: 01-2119906336-41-XXXX</i>	<i>7 - 15</i>	<i>Not classified</i>

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### 4.1.1 Inhalation

Provide access to fresh air. Get medical advice/attention if you feel unwell (show this safety data sheet if possible).

#### 4.1.2 Skin contact

Rinse skin with water/shower. Get medical advice/attention if you feel unwell (show this safety data sheet if possible).

#### 4.1.3 Eye contact

Rinse cautiously with water for several minutes. Get medical advice/attention if you feel unwell (show this safety data sheet if possible).

#### 4.1.4 Ingestion

Rinse mouth with water. Get medical advice/attention if you feel unwell (show this safety data sheet if possible).

### 4.2 Most important symptoms and effects, both acute and delayed

No symptoms and effects known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Not known.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

#### 5.1.1 Suitable extinguishers

Use extinguishing media suitable for surrounding materials.

#### 5.1.2 Unsuitable extinguishers

No data available.

### 5.2 Special hazards arising from the substance or mixture

No data available.

### 5.3 Advice for fire-fighters

No data available.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Limit the access of outsiders to the affected area. In case of large leakage, isolate the affected area. Ensure appropriate ventilation. Use personal protective equipment.

### 6.2 Environment protection measures

Prevent from possible leaking into soils and drainage systems.

### 6.3 Methods and material for containment and cleaning up

Prevent and control the spill with absorbent materials and collect it to be disposed in accordance with the regulations in force. Clean carefully the affected area with water.

### 6.4 Reference to other sections

Appropriate personal protective equipment (see section 8). Disposal information (see section 13).

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Follow general health and safety rules. Do not smoke, eat or drink when using the product. Avoid contact with the eyes. Ensure adequate ventilation in the working area. Wash hands thoroughly before breaks and at the end of work.

### 7.2 Conditions for safe storage, including any incompatibilities

Store and transport in original hermetically sealed packaging. Store in a clean, cool, dry, well-ventilated and lockable room at 5-25 ° C. Keep out of the reach of children.

### 7.3 Specific end use(s)

Fire retardant impregnating agent for wood and cellulose-containing materials.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 Control parameters

Occupational exposure limits	No data available.
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### 8.2 Exposure controls

8.2.1 Individual protection measures Observe basic health and safety rules. Ensure any personal protective equipment used complies with EC standards and is maintained and stored properly.

a) Eye/face protection: It is recommended to use protective eyewear according to EN 166.

b) Hand protection: It is recommended to use chemical handling gloves approved according to EN 374, NBR material (Nitrile rubber), thickness > 0.11mm, value for penetration > 480 minutes (permeation: level 6).

c) Respiratory protection: It is recommended, especially spraying, to use an air-purifying respirator according to EN 143, filter type: P3.

d) Skin protection: It is recommended to use protective clothing according to EN 340.

8.2.2 Engineering controls	No data available.
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8.2.3 Environmental exposure controls	No data available.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information

State	liquid
Colour	transparent, light brown
Odour	odourless

### 9.2 Important health, safety and environmental information

pH	2,0 +/-0,2
Boiling point	170°C
Flash point	Non flammable
Explosion risk	Non explosive
Relative density	1,10 +/-0,02
Solubility in water	Soluble
Partition coefficient (octane number/water)	N.A
Vapour density	N.A
Viscosity	1,25 mPa x s

**9.3 Other information**

APEO	No
VOC(Content)	0% mass
VOC (Density)	0 kg/m <sup>3</sup> (0 g/l)

**10. STABILITY AND REACTIVITY****10.1 Reactivity**

Stable at normal conditions.

**10.2 Chemical stability**

Stable at ambient temperature and under normal pressure.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Stable at normal conditions. Avoid freezing.

**10.5 Incompatible materials**

Do not mix with other materials.

**10.6 Hazardous decomposition products**

No data available.

**11. TOXICOLOGICAL INFORMATION****11.1 Acute toxicity**

Ingredient name	Acute oral toxicity	Acute inhalation toxicity	Acute dermal toxicity
<i>Iron orthophosphate</i> CAS number: 10045-86-0 EC number: 233-149-7	<i>Not classified</i> LD50 in Wistar rats was estimated >2000mg/kg	<i>Not classified</i> LC50 in Wistar rats was estimated >5.05mg/L	<i>N.A</i>

**11.2 Irritation/Corrosion**

Ingredient name	Skin irritation	Eye irritation
<i>Iron orthophosphate</i>	<i>Not irritating</i>	<i>Not classified</i>

**11.3 Skin sensitization**

Not sensitising.

**11.4 Classification CMR**

Not considered to be CMR.

**11.5 Other information**

No data available.

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Not classified dangerous for the environment according to Regulation (EC) n° 1272/2008.

**12.2 Persistence and degradability**

No data available.

**12.3 Bio accumulative potential**

Non-accumulative.

12.4 Mobility in soil  
No data available.

12.5 Results of PBT and vPvB assessment  
Does not contain PBT or vPvB substances.

12.6 Other adverse effects  
No data available.

### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods  
Dispose the product, its packaging and the wood treated with the product in accordance with Commission Decision 2014/955/EU on the list of waste pursuant to Directive 2008/98/EC. The code of the list of the European waste list for the product: 20 01 99 (Municipal wastes, Other fractions not otherwise specified). The code of the list of the European waste list for the wood treated with the product: 17 02 01 (Construction and demolition wastes, Wood). Dispose according to current national and local disposal regulations.

### 14. TRANSPORT INFORMATION

14.1 UN number  
Not dangerous according to international transport regulations.

14.2 Package group  
N.A

14.3 Transport hazard classes	
Land transport (ADN/ADR/RID)	Not subject to ADN/ADR/RID
Sea transport (IMDG)	Not subject to IMDG
Air transport (IATA)	Not subject to IATA classification

14.4 Environmental hazards	
Environmental pollutant	No
Marine pollutant	No

14.5 Special precautions for user  
N.A

14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
N.A

### 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Commission Regulation (EU) 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008

on classification, labelling and packaging of substances and mixtures (CLP)

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives

15.2 Chemical safety assessment  
N.A

## 16. OTHER INFORMATION

### 16.1 Abbreviations and acronyms

AND	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
APEO	Alkylphenol Ethoxylates
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of substances and mixtures (Classification, Labelling and Packaging)
CMR	Carcinogenic, mutagenic and reprotoxic substances
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for Prevention of Marine Pollution
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the international carriage of dangerous goods by rail
VOC	Volatile organic compounds
vPvB	Very Persistent, very Bioaccumulative

### 16.2 Additional information

All the information contained in this safety data sheet is based on our current state of knowledge of the product. This information should be considered as an aid in safe handling, storage and transportation of the product. This document does not represent a guarantee for any specific product features and does not establish a legally binding contractual relationship. The observation of all applicable laws and regulations regarding the product is the responsibility of the user. This document cancels and replaces any preceding release.

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