HEALTH AND SAFETY DATA

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

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

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

Issue Date 04/04/19
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.

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 > 0.11 mm, 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.

8.2.3 Environmental exposure controls No data available.

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>APEO</td>
<td>No</td>
</tr>
<tr>
<td>VOC(Content)</td>
<td>0% mass</td>
</tr>
<tr>
<td>VOC (Density)</td>
<td>0 kg/m³(0 g/l)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Acute oral toxicity</th>
<th>Acute inhalation toxicity</th>
<th>Acute dermal toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron orthophosphate</td>
<td>Not classified</td>
<td>Not classified</td>
<td>N.A</td>
</tr>
<tr>
<td>CAS number: 10045-86-0</td>
<td>LD50 in Wistar rats was estimated &gt;2000mg/kg</td>
<td>LC50 in Wistar rats was estimated &gt;5.05mg/L</td>
<td></td>
</tr>
</tbody>
</table>

11.2 Irritation/Corrosion

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Skin irritation</th>
<th>Eye irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron orthophosphate</td>
<td>Not irritating</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

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) nº 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

   the European Parliament and of the Council on the Registration, Evaluation, Authorisation and
   Restriction of Chemicals (REACH)

   the European Parliament and of the Council on the Registration, Evaluation, Authorisation and
   Restriction of Chemicals (REACH)

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


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.