

## 1. IDENTIFICATION OF MANUFACTURER, IMPORTER, OR OTHER OPERATION TRADER OF CHEMICAL

### 1.1 Identification of Chemical

**Product Name**

HR – PROF

**Identity Code**

382 490 700

### 1.2 Purpose of chemical

#### 1.2.1 Purpose verbally notified

Burning and ignition prevention

#### 1.2.2 Field Code

DD20                      Manufacture of wooden products and timber, corks, fabrics, excluding furniture

#### 1.2.3 Purpose Code

22                              Fire protection and extinguishing material

### 1.3.1 Manufacturer, importer, other operation trader

### 1.3.2 Contact Information

**IMPORTER/DISTRIBUTOR**

**UK and Ireland**

**Fire Retardant UK Ltd**

**Email:**

sales@fireretardantuk.com

**Enterprise Identification No:**

0907478-6

### 1.4 Emergency phone numbers

General emergency number in UK: Tel: 999

During working hours:

U.K. Tel: +44 (0) 845 296 9221

Head office Tel: + 358 9455 92498

After working hours Tel: + 358 9455 4883

#### 1.4.1 National Poison Information Centres in the UK

BELFAST	Royal Victoria Hospital Grosvenor Road Belfast BT9 7BL	02890 632032
BIRMINGHAM	City Hospital Dudley Road= Birmingham B18 7QH	0121 507 4123 <a href="http://www.npis.org">www.npis.org</a>
CARDIFF	Llandough Hospital Penarth Cardiff CF64 2XX	029 2071 5554
EDINBURGH	Royal Infirmary of Edinburgh  Little France Crescent Edinburgh EH16 4SA	0131 242 1381 <a href="http://www.show.scot.nhs.uk/s-pib">www.show.scot.nhs.uk/s-pib</a>
NEWCASTLE	Wolfson Unit Claremont Place Newcastle-upon-Tyne	0191 230 5460

## 2. COMPOSITION AND COMPONENT INFORMATION

### 2.1 Dangerous components

2.1.1 CAS-number or other code	2.1.2 Component name	2.1.3 Concentrat ion	2.1.4 Caution marks, R-clauses and other component information
10045-86-0	Ferric(III)phosphate	30 %	Xi; R36/38
77-92-9	Citric acid	1 %	Xi, R36
9005-00-9	Polyoxyethylene(21) stearyl alcohol	0,5 %	Xi, R41
7732-18-5	Water	68,5 %	-

## 3. HAZARDS IDENTIFICATION

This product is classified Xi - Irritation:  
Irritates eyes and skin.

## 4. FIRST AID INSTRUCTIONS

### 4.1 Particular instructions

In case of an accident or nausea, the care of a doctor may be necessary. (If possible show this safety data sheet to the attending doctor)

### 4.2 Breathing

If spray or vapour is inhaled, move to fresh air and if required consult a doctor.

### 4.3 Skin

If there is a spillage of the chemical onto clothing, remove clothes and shoes as soon as possible. Rinse splashes away immediately with clean water. If skin irritation continues, consult a doctor.

### 4.4 Splashes into eyes

Rinse immediately with eyes open under clean running water, including below eyelids, for at least 15 minutes.

If symptoms continue, consult a doctor.

### 4.5 Ingestion

Rinse the mouth and drink plenty of water.

### 4.6 Information for the doctor or other expert who gives first aid.

Give care according to the symptoms.

## 5. INSTRUCTIONS IN CASE OF A FIRE

### 5.1 Appropriate extinguishing media

The product will not self ignite. Use appropriate extinguishing method for the individual circumstances i.e. water, foam or powder.

### 5.3 Particular exposure danger in case of a fire

***Thermal decay can cause release of irritating gas and steam***

### 5.4 Fire-fighting procedures

Use breathing apparatus and fireproof protection in case of fire.

## 6. INSTRUCTIONS IN CASE OF ACCIDENTS

### 6.1 Instructions for prevention of personal injury

Product Name: **HR PROF**

Date 15. AUG 2006

Previous date -

3/6

Ensure that there is sufficient ventilation. Use personal protection equipments, see section 8.2.

## 6.2 Instructions for prevention of environmental damage

Prevent leaks from containers. Do not allow the chemical to contaminate surrounding environment. Do not pour into a watercourse.

## 6.3 Cleansing instructions

The product should be absorbed by an inert material (e.g. sand, soil, material binding acid, general cement). Gather mechanically and store in an appropriate container for disposal.

Rinse residue away with water.

# 7. HANDLING AND STORAGE

## 7.1 Handling

Avoid contact with skin, eyes, and clothes. Avoid breathing steam/spray. Do not eat or drink when handling the material. Wash hands and face before break and soon after handling the product. Comply with the Health & Safety at work laws.

## 7.2 Storage

Keep container tightly closed in a dry, cool, and well-ventilated place.

Do not keep with foodstuff or animal food products.

# 8. PREVENTION OF EXPOSURE AND PERSONAL PROTECTION

## 8.1 Exposure limit-value

### 8.1.1 HTP-value

CAS-number	Component name
------------	----------------

10045-86-0	Iron(III)phosphate	Fe: 1 mg/m <sup>3</sup> (8 h)
		Iron, soluble salt

## 8.2 Prevention of exposure

### 8.2.1 Operational prevention of exposure

Choose the type of protective clothing and accessories according to the concentration and the amount of dangerous material at the workplace.

#### 8.2.1.1 Breathing protection

Do not breath sprayed material. Where possible an adequate extractor system should be employed. Use appropriate breathing apparatus if the ventilation is inadequate. For example: Breathing apparatus equipped with P3 filter.

#### 8.2.1.2 Skin and Hand protection

Protective clothing. Wear clean and uncontaminated clothing.

Wear Rubber or plastic gloves.

#### 8.2.1.3 Eye protection

Closely fitting protection glasses or face guard. Have a bottle of eye-washing water and an eye bath available for use in the event of accidental splashes.

#### 8.2.1.4 Hygiene measures

Never eat drink or smoke in work areas. Comply with good personal hygiene practices after using this material, especially before eating, drinking, smoking or using the toilet.

It is advisable not to wear contact lenses when working with chemicals, as they may contribute to the severity of an eye injury.

### 8.2.2 Prevention of environmental contamination

Where possible use all materials for its intended purpose. Do not allow the material to contaminate the environment.

Do not empty into drains or watercourses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information (form, colour, odor)

Odorless and colourless liquid

### 9.2 Important information in terms of health, safety, and environment.

9.2.1	pH-value	2.5
9.2.2	Boiling point/boiling area	1700 °C (active material)
9.2.3	Flashing point	-
9.2.8	Relative density	1250 kg/m <sup>3</sup>
9.2.9	Solubility	
9.2.9.1	Solubility in water	100 %, fully water-soluble
9.2.9.2	Solubility in fat (solvent oil, individualise each)	insoluble

## 10. STABILITY AND REACTIVITY

### 10.1 Circumstances to avoid

Dangerous polymerisation does not occur.

### 10.2 Material to avoid

-

### 10.3 Dangerous disintegration

Disintegration does not occur, as long as the product is kept and handled in accordance with the instructions. However it will form an irritating gas in a fire.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Direct toxicity

This product is nontoxic.

### 11.2 Irritativity and corrosivity

Irritates skin and eyes.

### 11.4 Sub-acute, sub-chronic and long-term toxicity

This product does not cause cancer.

### 11.6 Other information concerning health effect

Iron(III)phosphate: NOAEL / NOEL/via mouth/18-month-old child = 52 mg FePO<sub>4</sub> a day.

## 12. ECOLOGICAL INFORMATION

### 12.1 Eco-toxicity

#### 12.1.1 Toxicity for organisms underwater

There is no data of such.

Rauta(III)fosfaatti: NOEC and LC50/96h/kirjolohi (rainbow trout, *Oncorhynchus mykiss*) > 100 mg/l.

NOEC and EC50/48h/vesikirppu (*Daphnia magna*) > 100 mg/l. NOEC ja EC50/72h/levä

(*Scenedesmus subspicatus*) > 100 mg/l.

#### 12.1.2 Toxicity for other organisms

Iron(III)phosphate: LD50/birds > 2000 mg/kg. Mammal: LD50 > 5000 mg/kg bw.

### 12.2 Solubility

Water-soluble 100 %,

### 12.3 Stability and disintegrativity

#### 12.3.1 Biological disintegration

#### 12.4 Bioaccumulationpotential

Product Name: **HR PROF**

Date 15. AUG 2006

Previous date -

5/6

**12.5 Other harmful effect**

Manufacturer: Ecological damages are neither identified nor expected in normal use.

**13. DISPOSAL OF WASTE MATERIAL**

Avoid disposal where possible; make an attempt to use the material completely for its intended use. Dispose of in accordance with local and national constitution and local environmental control regulations.

**14. TRANSPORT INFORMATION**

**14.1 YK-number** -

**14.3 Land transport**

**14.3.4 Other information** The product is not classified with respect to transport.

**15. CHEMICAL SPECIFICATIONS AND REFERENCES**

**15.1 Caution lable information**

**15.1.1 Caution mark and its name of the product**

Xi Irritation

**15.1.2 Component names to signify on caution label**

Iron(III)phosphate

**15.1.3 R-clauses**

R36/38 Irritates skin and eyes.

**15.1.4 S-clauses**

S2 Keep out of reach of children.

S26 Rinse splashes in eyes immediately with clean running water (at least 15 minutes) and consult a doctor.

S39 Use eye- or face guard

S46 If the material is swallowed, immediate care of a doctor is necessary and show this package or label

**16. Others**

**16.1 R-clauses of dangerous components of the chemical**

R36/38 Irritates eyes and skin.

R36 Irritates eyes.

R41 Danger of serious damage of eyes

**16.4 Additional information**

Companies mentioned in section 1.

Note!

This is an Operation Safety Data Sheet (Käyttöturvallisuustiedote) translated into English, which is valid in Finland and originally in Finnish language. However, some parts that are extremely difficult to translate remain in original Finnish language. Since this is an unofficial translation, this does not bear the responsibility of any problems concerning the matter. Please use only for a reference and refer more to the original Finnish sheet if necessary.

Product Name: **HR PROF**

Date 15. AUG 2006

Previous date -

6/6

The information contained herein is given in good faith. However, since application conditions are beyond our control, Fire Retardant UK Ltd cannot assume responsibility for any risks or liability, which may result from the use of this product. The company reserves the right to alter or modify data without prior notice.

The information in this data sheet is believed to be in compliance with EU and UK regulations, however, we are unable to guarantee total accuracy. As much as possible we endeavour to remain up to date with changes in both EU and UK regulations. We cannot guarantee that the hazards described in this data sheet are the only hazards that may exist.