

**Revision Date:** 13/7/2004**Revision Number:** 1**Material/Trade Name:** STUARTS ENGINEERING MARKING

## 1 - Substance Identification

**Material/Trade Name** : Stuarts Engineering Marking  
**Type** : Penetrant Suspension  
**Company** : Industrial and Consumer Supplies  
**Address** : Tor-Y-Mynydd Farm  
Devauden  
Chepstow  
NP6 6NU  
**Telephone** : 01600 860869  
**Fax** : 01600 860869  
**Emergency Telephine** : 07899 761593

## 2 - Composition

Substance	% Wt.	CAS No.	EC No.
Ammonium iron hexacyanoferrate	30%	25869-00-5	247-304-1
Petroleum distillates	<20%	64742-65-0	265-169-7
Residual petroleum oils	<20%	64742-62-7	265-166-0
China Clay	50%	1332-58-7	310-127-6

## 3 - Hazard Identification

Not classified as hazardous under the CHIP Regulations 2002

Not Hazardous according to 88/379/EEC and subsequent amendments

## 4 - First-aid Measures

**Inhalation:** Remove to fresh air and rest  
If recovery is not rapid call for prompt medical attention

**Eyes:** Irrigate with water for at least 15 minutes  
Take care not to wash chemical from one eye to another  
If irritation persists call a doctor

**Skin:** Remove contaminated clothing  
Wash with soap/cleanser and rinse with plenty of water  
If irritation persists, obtain medical attention

**Ingestion:** Do not induce vomiting  
Give plenty of water to drink  
Beware of aspiration if vomiting occurs  
Seek medical attention immediately

## 5 - Fire-fighting Measures

**Suitable Extinguishers:** Alcohol resistant foam  
Dry powder  
Carbon dioxide  
Water spray/fog

**Unsuitable Extinguishers:** Direct water jets

**Hazardous Decomposition:** Toxic fumes are produced in fire

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## 5 - Fire-fighting Measures (Continued)

**Special Procedures:** Do not breathe decomposition products and fumes  
Use approved self-contained breathing apparatus  
Wear fire retardant clothing  
Large fires should only be dealt with by trained personnel

## 6 - Accidental Release Measures

**Exposure Controls:** Ventilate area  
Do not allow spill to enter drains and watercourses

**Personal Protection:** Wear suitable respiratory protection for large spillages and in confined spaces  
Wear rubber gloves  
Use eye protection such as goggles to BS EN 166 Chemical Grade

**Disposal Considerations:** Absorb in inert material such as sand or absorbent granules  
Scoop up and place in plastic container to await transfer  
Dispose in accordance with local regulations

## 7 - Handling and Storage

**Handling:** Avoid skin contact  
Avoid eye contact  
Avoid inhalation of vapour  
Ensure adequate ventilation  
Use local extraction equipment where possible  
Wear suitable protective clothing (see section 8)

**Storage:** Store in tightly closed labelled containers  
Store in a cool, dry, well ventilated area

## 8 - Exposure Controls

**Occupational Exposure Limit:** Not Assigned

Wear rubber gloves  
Wear suitable overalls or apron and change if contaminated  
Wear suitable eye protection such as BS EN 166  
Use in well ventilated areas.  
Use mechanical ventilation if possible  
After contact with skin wash off immediately

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## 9 - Physical & Chemical Properties

<b>Appearance</b>	: Suspension in mineral oil
<b>Odour</b>	: Pleasant
<b>pH</b>	: n/e
<b>Boiling point/range</b>	: >320°C (residual oils)
<b>Melting point/range</b>	: -9°C (residual oils)
<b>Flash point</b>	: 223°C (residual oils)
<b>Flammability</b>	: NON-FLAMMABLE
<b>Autoflammability</b>	: n/e
<b>Explosive properties</b>	: n/e
<b>Oxidising properties</b>	: None
<b>Vapour pressure</b>	: <0.1kPa at 20°
<b>Relative density</b>	: 0.893 (residual oils)
<b>Solubility</b>	: Almost insoluble
<b>Vapour Density</b>	: n/e
<b>Viscosity</b>	: 99.0 cSt
<b>Evaporation rate (Bu Ac = 1)</b>	: n/e

(n/e = not established)

## 10 - Stability and Reactivity

Stable at normal temperatures  
Materials to avoid: oxidising agents  
Conditions to avoid: high temperature & direct sunlight  
No hazardous decomposition products when stored and handled correctly

## 11 - Toxicological Information

Routes of exposure: inhalation, skin absorption and ingestion  
Acute effects from ingestion: Nausea, vomiting and stomach pain  
Repeated skin contact may cause dermatitis

## 12 - Ecological Information

Ecotoxicity:- No specific data available  
Persistence:- No specific data available  
Bioaccumulative potential:- No specific data available  
Mobility:- Not determined

## 13 -Disposal Considerations

Do not discharge into drains or watercourses  
Dispose of in accordance with local regulations

## 14 -Transport Information

Not classified as hazardous for transport

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## **15 - Regulatory Information**

### **a) Risk & Safety**

Not classified as hazardous under the CHIP Regulations 2002

### **b) Other Regulations**

Health & Safety at Work etc. Act 1974

Control of Substances Hazardous to Health Regulations 2002

Environmental Protection Act 1990

Special Waste Regulations 1996

## **16 - Other Information**

Not Applicable