

**SENTINEL X200** 

Version: 2.3

Effective Date: 20/03/2006 Previous Date: 23/01/2006

# 1 IDENTIFICATION OF PREPARATION AND OF COMPANY

### 1.1 Identification of the substance or preparation

Product: SENTINEL X200

### 1.2 Use of substance/preparation

Boiler descaler for central heating systems

### 1.3 Company/undertaking identification

Sentinel Performance Solutions Ltd.
The Heath Business & Technical Park

Runcorn

Cheshire WA7 4QX United Kingdom

Tel: +44 (0) 1928 588 330 Fax: +44 (0) 1928 588 368

### 1.4 Emergency telephone

+44 (0)1928 588339

Official advisory body:

National Poisons Information Centre

Medical Toxicology Unit

Guy's and St. Thomas' NHS Trust Avonley Road, London, SE14 5ER

Tel.: 0207 358 9167, Fax: 0207 771 5309

# 2 COMPOSITION / INFORMATION ON INGREDIENTS

### **Chemical description**

Neutral solution of synthetic polymers, phosphonate and surfactant

Hazardous component(s) EINECS/ELINCS # CAS # Conc.

None.

# 3 HAZARDS IDENTIFICATION

### Important hazards

Health/physical hazard
 Not considered hazardous to health.

# 4 FIRST AID MEASURES

**Skin contact** Wash with water.

**Eye contact** Flush immediately with plenty of running water.

InhalationRemove to fresh air.IngestionRinse mouth with water.

Product: SENTINEL X200 Page: 1/5



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# 5 FIRE-FIGHTING MEASURES

**Extinguishing Media** 

- Suitable Carbon dioxide, dry chemicals, foam, water spray (fog).

Special protective equipment

for fire fighters

Self contained breathing apparatus. (CEN: EN 137)

Protective clothing (CEN: EN 469) Protective gloves (CEN: EN 659)

Helmet (CEN: EN 443)

**Special exposure hazards** Phosphines, oxides of carbon, nitrogen, and phosphorus evolved in fire.

# 6 ACCIDENTAL RELEASE MEASURES

Personal precautions Protective clothing

Please refer also to section no. 8 'Exposure controls' for further information.

**Environmental precautions** Handle in accordance with good industrial hygiene and safety procedures.

Accidental release of large quantities into the aquatic environment may harm aquatic

organisms.

**Methods for Cleaning Up** 

- on soil Absorb onto inert material and dispose of according to Controlled Waste Regulations.

### 7 HANDLING AND STORAGE

**7.1 Handling** Do not breathe vapours.

Avoid contact with skin and eyes.

**7.2 Storage** Store between 12 - 55 °C

Material is stable at least 6 months. Keep container tightly closed. Store in cool, well ventilated area.

Maximum storage stability

(days)

275

# 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure controls**

- Recommended engineering

controls

Ensure good ventilation.

- Respiratory protection Not required.

- Hand protection Protective gloves (Plastic, impervious) (Protection against unintentional short-term

contact) CEN: EN 420

- Eye protection Safety goggles.

CEN: EN 166

- Skin protection Protective clothing if splashing or repeated contact with product is likely.

CEN: EN 340

- Environmental exposure controls Prevent from entering in public sewers or the immediate environment.

# 9 PHYSICAL AND CHEMICAL PROPERTIES

Product : SENTINEL X200 Page: 2 / 5



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#### 9.1 General information

Appearance Liquid
Colour Colourless
Odour Mild

### 9.2 Important health, safety and environmental info

pH (concentrated product) 10,3
Boiling point/range (°C) 100
Flash point (Pensky/Martens) None.

(°C)

Density at 20°C (kg/m3) 1023

Solubility in water (% weight) Completely soluble

Viscosity at 20°C (mPas) 10
Relative vapour density (air=1) < 1
Evaporation rate (ether=1) < 1

#### 9.3 Other information

Melting point, (°C) 0
Pour point, (°C) 3

# **10 STABILITY AND REACTIVITY**

**10.1 Conditions to avoid** Protect from freezing.

10.2 Materials to avoid None known.

10.3 Hazardous decomposition Phosphines, oxides of carbon, nitrogen, and phosphorus evolved in fire.

products

# 11 TOXICOLOGICAL INFORMATION

### **Mammalian Test Data**

Oral LD50, rat (mg/kg) (Calculated data) > 10000
 Dermal LD50, rabbit (mg/kg) (Calculated data) > 10000

### **Exposure hazard**

Inhalation
 Skin contact
 Eye contact
 Prolonged or repeated exposure may cause transient irritation.
 Prolonged or repeated contact may cause transient irritation.
 Prolonged or repeated contact may cause transient irritation.

- Ingestion May cause slight gastrointestinal irritation.

# 12 ECOLOGICAL INFORMATION

#### **Ecotoxicity**

- Rainbow Trout (mg/l) LC50 : > 10000 (Calculated data)

96 hour static acute bioassay

Product : SENTINEL X200 Page: 3 / 5



# SAFETY DATA SHEET SENTINEL X200

Version: 2.3

Effective Date: 20/03/2006 Previous Date: 23/01/2006

### Persistence and degradability

- COD (mgO2/g) 21

Other adverse effects

- Nutrients P = 0.83 mg/g

**Summary** The product is not classified as dangerous for the environment.

# 13 DISPOSAL CONSIDERATIONS

**Disposal of product** According to Controlled Waste Regulations.

EWC (European Waste Code) recommendation: 16 03 06

16 Wastes not otherwise specified in the list.

16 03 Off-specification batches and unused products.

16 03 06 Organic wastes

Depending on the origin and state of the waste, other EWC numbers may be applicable

too.

**Disposal of packaging** According to Controlled Waste Regulations.

EWC (European Waste Code) recommendation: 15 01 02

15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not

otherwise specified.

15 01 Packaging (including separately collected municipal packaging waste).

15 01 02 Plastic packaging.

Depending on the origin and state of the waste, other EWC numbers may be applicable

too.

# 14 TRANSPORT INFORMATION

Substance id.no. (SIN) (UN No.) Not applicable.

Correct shipping name Not applicable.

Land transport

- RID/ADR classification Not classified under this legislation.

**Maritime transport** 

- IMO-IMDG class Not classified under this legislation

Air transport

- ICAO/IATA classification 
Not classified under this legislation

Product : SENTINEL X200 Page : 4 / 5



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# 15 REGULATORY INFORMATION

**EEC labelling information** 

- Symbol(s) None.

- R Phrase(s) No Risk phrases assigned.

- S Phrase(s) S 2 :Keep out of the reach of children.

S 24/25 :Avoid contact with skin and eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice

S 28 :After contact with skin, wash immediately with plenty of water.

- EINECS number All ingredients of this product are listed in EINECS or ELINCS, unless specifically

exempted under the EEC Directive 67/548/EEC.

# **16 OTHER INFORMATION**

Nature of revision Correction in Section: 1

Based on EC Directive 1999/45/EC

2001/58/EC 2001/118/EC

Product: SENTINEL X200 Page: 5 / 5