

SAFETY DATA SHEET**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. |
| - Environmental hazards | The product is not classified as dangerous for the environment. |

4 FIRST AID MEASURES

- | | |
|---------------------|---|
| Skin contact | Wash with water. |
| Eye contact | Flush immediately with plenty of running water. |
| Inhalation | Remove to fresh air. |
| Ingestion | Rinse mouth with water. |

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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.

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

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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) (°C)	None.
Density at 20°C (kg/m ³)	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 products	Phosphines, oxides of carbon, nitrogen, and phosphorus evolved in fire.

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

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- | | |
|-----------------|---|
| - 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 |