

**SAFETY DATA SHEET****X200 CONCENTRATE**

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**1 IDENTIFICATION OF PREPARATION AND OF COMPANY****1.1 Identification of the substance or preparation**

Product : X200 CONCENTRATE

**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

<b>Hazardous component(s)</b>	<b>EINECS/ELINCS #</b>	<b>CAS #</b>	<b>Conc.</b>
Amines, C10-16-alkyldimethyl, N-oxides Xi, N,R38-41-50	274-687-2	70592-80-2	0.1 - 1 %

**Remarks**

The classification of the above substance(s) is given, including the symbol letters and R phrases which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 (Relevant R phrases, used in sections 2 and 3 of this SDS), where the full text of each relevant R phrase is listed.

**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.

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**4 FIRST AID MEASURES**

<b>Skin contact</b>	Wash with water.
<b>Eye contact</b>	Flush immediately with plenty of running water.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Rinse mouth with water.

**5 FIRE-FIGHTING MEASURES**

<b>Extinguishing Media</b>	
- Suitable	Carbon dioxide, dry chemicals, foam, water spray (fog).
<b>Special protective equipment for fire fighters</b>	Self contained breathing apparatus. (CEN : EN 137) Protective clothing (CEN : EN 469) Protective gloves (CEN : EN 659) Helmet (CEN : EN 443)
<b>Special exposure hazards</b>	Phosphines, oxides of carbon, nitrogen, and phosphorus evolved in fire.

**6 ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Protective clothing Please refer also to section no. 8 'Exposure controls' for further information.
<b>Environmental precautions</b>	Handle in accordance with good industrial hygiene and safety procedures. Accidental release of large quantities into the aquatic environment may harm aquatic organisms.
<b>Methods for Cleaning Up</b>	
- on soil	Absorb onto inert material and dispose of according to Controlled Waste Regulations.

**7 HANDLING AND STORAGE**

<b>7.1 Handling</b>	Do not breathe vapours. Avoid contact with skin and eyes.
<b>7.2 Storage</b>	Store between 12 - 55 °C Material is stable at least 6 months. Keep container tightly closed. Store in cool, well ventilated area.
<b>Maximum storage stability (days)</b>	270

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Exposure controls</b>	
- 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

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**Exposure controls**

- 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****9.1 General information**

Appearance	Liquid
Colour	Colourless to white

**9.2 Important health, safety and environmental info**

pH (concentrated product)	6.9
Boiling point/range (°C)	104
Flash point (Pensky/Martens) (°C)	> 100
Density at 20°C (kg/m <sup>3</sup> )	1035
Solubility in water (% weight)	Completely soluble
Viscosity at 20°C (mPas)	19000

**9.3 Other information**

Melting point, (°C)	- 5
Pour point, (°C)	- 2

**10 STABILITY AND REACTIVITY**

- |  |   |
|--|---|
| <b>10.1 Conditions to avoid</b>              | Protect from freezing.  |
| <b>10.2 Materials to avoid</b>               | None known.   |
| <b>10.3 Hazardous decomposition products</b> | Phosphines, oxides of carbon, nitrogen, and phosphorus evolved in fire. |

**11 TOXICOLOGICAL INFORMATION****Mammalian Test Data**

- Oral LD50, rat (mg/kg) > 2000

**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**

<b>Ecotoxicity</b>	No data available
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**Persistence and degradability** No data available

**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

**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**

## SAFETY DATA SHEET

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Version: 1.4

Effective Date: 20/03/2006

Previous Date: 20/01/2006

Nature of revision	Correction in Section: 1
Based on EC Directive	1999/45/EC 2001/58/EC 2001/118/EC
Relevant R phrases, used in sections 2 and 3 of this SDS	R 38 : Irritating to skin. R 41 : Risk of serious damage to eyes. R 50 : Very toxic to aquatic organisms.