

SAFETY DATA SHEET**SENTINEL X500**

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

Product : SENTINEL X500

1.2 Use of substance/preparation

Inhibited antifreeze 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**

Inhibited propylene glycol

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Propylene glycol	200-338-0	57-55-6	> 1 %

Remarks

As specified in EC Directive 93/112/EC, some substances, without hazard classification, are mentioned in section 2 since they have exposure limits in some of the European member states.

3 HAZARDS IDENTIFICATION**Important hazards**

- Health/physical hazard Not considered hazardous to health.
- Symptoms of exposure Prolonged or repeated contact may cause transient irritation.
- Environmental hazards The product is not classified as dangerous for the environment.

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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.

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	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	Keep container tightly closed. Store in cool, well ventilated area.
Maximum storage stability (days)	275

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values	
- WEL (EH40UK)	Propylene glycol: WEL 150 ppm, 474 mg/m ³ (8-hour TWA) (Total vapour and particulates); 10 mg/m ³ (8-hour TWA) (particulates only)
Exposure controls	
- Recommended engineering controls	Ensure good ventilation.
- Respiratory protection	In case of insufficient ventilation, use a breathing mask with filter type: P2 CEN : EN 140; EN 143; EN 149

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Exposure controls

- 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**9.1 General information**

Appearance	Liquid
Colour	Colourless
Odour	Mild

9.2 Important health, safety and environmental info

pH in aqueous solution	7,2 (5%)
Boiling point/range (°C)	188
Flash point (Pensky/Martens) (°C)	> 100
Density at 20°C (kg/m ³)	1045
Solubility in water (% weight)	Miscible with water
Viscosity at 20°C (mPas)	60

10 STABILITY AND REACTIVITY

- 10.1 Conditions to avoid** None known.
- 10.2 Materials to avoid** None known.
- 10.3 Hazardous decomposition products** Oxides of carbon, nitrogen and phosphorus evolved in fire.

11 TOXICOLOGICAL INFORMATION**Mammalian Test Data**

- Oral LD50, rat (mg/kg) > 5000 (estimated value)

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** No data available
- Persistence and degradability** No data available

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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.

Other Safety Data Sheet available for professional user on request.

16 OTHER INFORMATION

SAFETY DATA SHEET

SENTINEL X500

Version: 2.4

Effective Date: 20/03/2006

Previous Date: 23/01/2006

Nature of revision

Correction in Section: 1

Based on EC Directive

1999/45/EC
2001/58/EC
2001/118/EC