

SAFETY DATA SHEET**SENTINEL Rapid-Dose X100 Inhibitor****1 IDENTIFICATION OF PREPARATION AND OF COMPANY****1.1 Identification of the substance or preparation**

Product : SENTINEL Rapid-Dose X100 Inhibitor

1.2 Use of substance/preparation

Scale and corrosion inhibitor 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
e-mail : info.uk@sentinel-solutions.net

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 HAZARDS IDENTIFICATION**Important hazards**

- Health/physical hazard Not considered hazardous to health.
- Environmental hazards The product is not classified as dangerous for the environment.

3 COMPOSITION / INFORMATION ON INGREDIENTS**Chemical description**

Aqueous solution of inorganic salts and organic compounds

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Boric acid Xi, R36/37	233-139-2	10043-35-3	< 20 %
Sodium molybdate Xi, R36/37/38-52/53	231-551-7	7631-95-0	< 10 %
Sodium nitrate O, R8	231-554-3	7631-99-4	< 10 %

SAFETY DATA SHEET**SENTINEL Rapid-Dose X100 Inhibitor**

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Benzotriazole Xn, R20/22-36-52/53	202-394-1	95-14-7	< 5 %

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.

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 and nitrogen 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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

SAFETY DATA SHEET**SENTINEL Rapid-Dose X100 Inhibitor****Exposure limit values**

- WEL (EH40UK) Molybdenum compounds (as Mo) soluble : WEL 5 mg/m³ (8-hour TWA); 10 mg/m³ (15-minute)

Exposure controls

- Recommended engineering controls Adequate ventilation to maintain air contaminants below exposure limits.

- Respiratory protection In case of insufficient ventilation, use a breathing mask with filter type: P2
CEN : EN 140; EN 143; EN 149

- 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 Light blue

9.2 Important health, safety and environmental info

pH (concentrated product) 6,6
Flash point (Pensky/Martens) (°C) > 100
Density at 20°C (kg/m³) 1286
Solubility in water (% weight) Completely soluble
Viscosity at 20°C (mPas) 29
Relative vapour density (air=1) < 1
Evaporation rate (ether=1) < 1

9.3 Other information

Melting point, (°C) -16
Pour point, (°C) -13

10 STABILITY AND REACTIVITY

10.1 Conditions to avoid Keep away from heat.

10.2 Materials to avoid None known.

10.3 Hazardous decomposition products Oxides of carbon and nitrogen evolved in fire.

11 TOXICOLOGICAL INFORMATION**Mammalian Test Data**

- Oral LD50, rat (mg/kg) No information available.

SAFETY DATA SHEET

SENTINEL Rapid-Dose X100 Inhibitor

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

Bioaccumulative potential

- Bioaccumulation Not bioaccumulating
(Refers to active component) Sodium molybdate

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

SAFETY DATA SHEET

SENTINEL Rapid-Dose X100 Inhibitor

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

SDS issued on	08/02/2008
Nature of revision	Initial issue
Based on EC Directive / Regulations	1999/45/EC 2001/58/EC 2001/118/EC (EC) No 1907/2006 (REACH)
Relevant R phrases, used in sections 2 and 3 of this SDS	R 8 : Contact with combustible material may cause fire. R 36 : Irritating to eyes. R 20/22 : Harmful by inhalation and if swallowed. R 36/37 : Irritating to eyes and respiratory system. R 36/37/38 : Irritating to eyes, respiratory system and skin. R 52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.