

SAFETY DATA SHEET

SENTINEL X100

Version: 2.4

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

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product: SENTINEL X100

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

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 inorganic and organic scale and corrosion inhibitors

Hazardous component(s)	EINECS/ELINCS#	CAS#	Conc.
Benzotriazole	202-394-1	95-14-7	< 2.5 %
Xn, R20/22-36-52/53			
Sodium molybdate	231-551-7	7631-95-0	2.5 - 25 %
R52/53			

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.

Product: SENTINEL X100 Page: 1/5



SAFETY DATA SHEET

SENTINEL X100

Version: 2.4

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

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.

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.

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)

270

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Product : SENTINEL X100 Page : 2 / 5



SAFETY DATA SHEET

SENTINEL X100

Version: 2.4

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

Exposure limit values

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

(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 Safety goggles.

- Eye protection CEN: EN 166

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

CEN: EN 340

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

PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance Liquid

Colour Colourless to yellow

Odour Mild

9.2 Important health, safety and environmental info

pH (concentrated product) > 100 Boiling point/range Flash point (Pensky/Martens) > 100

(°C)

Density at 20°C (kg/m3) 1150

Solubility in water (% weight) Completely soluble

9.3 Other information

- 6 Melting point, (°C)

10 STABILITY AND REACTIVITY

10.1 Conditions to avoid Protect from freezing.

10.2 Materials to avoid None known.

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

products

11 TOXICOLOGICAL INFORMATION

Mammalian Test Data

- Oral LD50, rat (mg/kg) > 2000 (estimated value) - Dermal LD50, rabbit (mg/kg) > 2000 (estimated value)

Product: SENTINEL X100 Page: 3/5



SAFETY DATA SHEET SENTINEL X100

Version: 2.4

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

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

- Fathead minnow (mg/l) LC50: 4000

NOEL: 1800 (Calculated data) 96 hour Acute Toxicity

- Daphnia Magna (mg/l) LC50 : 3800

NOEL: 1900 (Calculated data) 48 hour Acute Toxicity

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.

The evaluation of environmental hazards is based on the concentration limits as set out in

directive 1999/45/EC.

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.

Product : SENTINEL X100 Page: 4 / 5



SAFETY DATA SHEET SENTINEL X100

Version: 2.4

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

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

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 R 36: Irritating to eyes.

sections 2 and 3 of this SDS R 20/22 : Harmful by inhalation and if swallowed.

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.



Cannon Water Technology Inc.

233 Technology Way Suite 9, Rocklin, CA 95765 Voice: 1 916-315-2691, FAX: 1 916-304-0210 csd@cannonwater.com, https://cannonwater.com/

Product: SENTINEL X100 Page: 5 / 5