

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: Sentinel X400

Chemical Name: Mixture. (aqueous solution)

CAS No.: -EC No.: -

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s): Sludge remover for central heating systems

1.3 Details of the supplier of the safety data sheet

Company Identification: SENTINEL PERFORMANCE SOLUTIONS LTD

The Heath Business & Technical Park

Runcorn Cheshire WA7 4QX United Kingdom

Telephone: +44 (0) 1928 588 330 (office hours, Monday - Friday)

Fax: +44 (0) 01928 588 368

E-Mail (competent person): info.uk@sentinel-solutions.net

1.4 Emergency telephone number

Emergency Phone No. (24 h): +44 (0) 1928 588 339 (24 hours/ 7 days)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)

Not classified.

According to Directive 67/548/EEC & Directive 1999/45/EC

Not classified.

2.2.1 Label elements According to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictogram(s):

Signal word(s):

Hazard statement(s):

Precautionary statement(s):

Supplemental Hazard Information:

None.

None.

2.2.2 Label elements According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard pictogram(s): None. Hazard Symbol: None. Risk Phrases: None.

Safety Phrases: S2: Keep out of the reach of children.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of

soap and water.

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2.3 Other hazards

May cause eye irritation. Repeated and/or prolonged skin contact may cause irritation. Ingestion may cause irritation of the gastrointestinal tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

EC Classification No. 1272/2008

20 0100111001110111212000					
Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH	Hazard symbol(s) and
				Registration No.	hazard statement(s)
No classifiable hazardous	-	-	-	-	-
ingredient(s).					

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Symbol and Risk Phrases
No classifiable hazardous ingredient(s).	-	-	-	-	-

ingre	dient(s).						
(aqueous solution: Neutral)							
4.	FIRST AID MEAS	URES					
4.1	Description of first a Inhalation:	aid measures	Remove patient from exposure, keep warm and at rest. I symptoms persist, obtain medical attention.				
	Skin Contact:		Remove contaminated clothing immediately and drench affected skin with plenty of water, then wash with soap and water. I symptoms persist, obtain medical attention. Contaminated clothing should be thoroughly cleaned.				
	Eye Contact:		If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Obtain medical attention.				
	Ingestion:		Do not induce vomiting. Provided the patient is conscious, washout mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention.				
4.2	Most important sym acute and delayed	ptoms and effects, bot	May cause eye irritation. Repeated and/or prolonged skir contact may cause irritation. Ingestion may cause irritation or the gastrointestinal tract.				

Indication of the immediate medical attention 4.3

and special treatment needed

In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media: Water spray, foam, dry powder or CO2

Unsuitable Extinguishing Media: Do not use water jet.

5.2 Special hazards arising from the substance or

mixture

May give off toxic fumes in a fire. Carbon monoxide, Carbon

dioxide, Nitrogen oxides and Sulphur oxides.

5.3 Advice for fire-fighters A self contained breathing apparatus and suitable protective

clothing should be worn in fire conditions. Keep fire exposed

containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and

emergency procedures

Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear suitable protective clothing

and gloves. (See Section: 8). Contaminated clothing should be

thoroughly cleaned.

6.2 Environmental precautions

Large spillages: Spillages or uncontrolled discharges into

watercourses must be alerted to the Environment Agency or

other appropriate regulatory body.

6.3 Methods and material for containment and

cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent

material. Wash spill area with soapy water.

6.4 Reference to other sections Personal Protection: See Section: 8.

Other advice None.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Avoid inhalation of vapours. Avoid

contact with skin and eyes. Wear suitable protective clothing

and gloves. (See Section: 8).

Do not eat, drink or smoke at the work place. Wash hands and

exposed skin after use. Contaminated clothing should be

thoroughly cleaned.

7.2 Conditions for safe storage, including any

incompatibilities

Keep away from frost. Keep only in the original container in a

cool, well-ventilated place.

7.3 Specific end use(s) Sludge remover for central heating systems

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters No Occupational Exposure Limit assigned.

8.2 Exposure controls

8.2.1 Appropriate engineering controls Provide adequate ventilation, including appropriate local

extraction if dusts, fumes or vapours are likely to be evolved.

8.2.2 Personal Protection

Eye/face protection Goggles giving complete protection to eyes. (EN 166)

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Skin protection Protective gloves. Nitrile rubber. (EN 374)



Respiratory protection In case of insufficient ventilation, wear suitable respiratory

equipment. (EN 141)

Other: Apron or other light protective clothing, boots and plastic or

rubber gloves.

8.2.3 Environmental Exposure Controls Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid. (aqueous solution)
Colour: Clear, Yellow-Amber.

Odour: Characteristic.

Boiling Point ($^{\circ}$ C): 100 Melting Point ($^{\circ}$ C): 0 Flash Point ($^{\circ}$ C): >100 pH (Value): 6.0-6.5

Specific Gravity: 1.020-1.045 g/cm³ (20 °C)

Viscosity (mPa.s): 10 (20 °C)
Vapour Density (Air=1): <1

Relative Evaporation Rate (Ether=1): <1
Solubility (Water): Miscible.

Other information No data.

10. STABILITY AND REACTIVITY

10.1 Reactivity No information available.
 10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactionsNo information available.

10.4 Conditions to avoid Keep away from heat, sources of ignition and direct sunlight.

10.5 Incompatible materials None known.

10.6 Hazardous Decomposition Product(s) May give off toxic fumes in a fire. Carbon monoxide, Carbon

dioxide, Nitrogen oxides and Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

9.2

 $LD_{50} \ (oral/rat): > 30,000 \ mg/kg \ (calculated)$

Inhalation: No information available.

Skin Contact: LD_{50} (dermal/rabbit): > 14,000 mg/kg (calculated)

Eye Contact: No information available.

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skin corrosion/irritation: Repeated and/or prolonged skin contact may cause irritation.

Serious eye damage/irritation:
respiratory or skin sensitization:
Mutagenicity:
No information available.
Carcinogenicity:
No information available.
Reproductive toxicity:
No information available.
STOT-single exposure:
No information available.
No information available.
No information available.

Aspiration hazard: Negative.

Other information:

No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity EC50 (Daphnia magna): > 7000 mg/l/48h (estimated)

WGK: Not classified.

12.2 Persistence and degradability Part of the components are biodegradable.

12.3 Bioaccumulative potential No information available.
 12.4 Mobility in soil No information available.
 12.5 Results of PBT and vPvB assessment No information available.
 12.6 Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national

None.

legislation.

14. TRANSPORT INFORMATION

14.1 UN number Not classified according to the United Nations

'Recommendations on the Transport of Dangerous Goods'.

14.2Proper Shipping NameNone.14.3Transport hazard class(es)None.14.4Packing GroupNone.

14.5 Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of Not applicable.

MARPOL73/78 and the IBC Code

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the

substance or mixture

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006., Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive

1999/45/EC.

15.1 Chemical Safety Assessment

16. OTHER INFORMATION

Full text of Hazard statements and Risk phrases for pure substances listed in section 3.

Hazard Symbol: None. Risk Phrases: None.

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The following sections contain revisions or new statements: 1-16. Abbreviations:

CAS = Chemical Abstracts Service;

CNS = Central Nervous System;

EINECS = European Inventory of Existing Commercial Chemical Substances;

EC50 = Effective Concentration 50%;

IARC = International Agency for Research on Cancer;

IC50 = Inhibitory Concentration 50%;

LC50 = Lethal Concentration 50%;

LD50 = Lethal Dose 50%;

LTEL = Long Term Exposure Limit;

STEL = Short Term Exposure Limit;

TWA = Time Weighted Average;

References:

Disclaimer:

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.

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