



**Product** X400 Page 1 of 6 Code: Date Prepared: August 2009 Version: 1

## 1. PRODUCT AND COMPANY INFORMATION

Identification of the substance/preparation Sentinel X400

Use of the substance/preparation Sludge Remover for hydronic heating systems

Company Identification Sentinel Performance Solutions Ltd. Manufactured by **Douglas Products and Packaging** Address and Telephone No. 1550 East Old 210 Highway

Liberty

Missiouri, 64068

USA

Telephone for further information: (816)-781-4250 (8am - 5pm)

Emergency Phone No. Chemtrec (800) 424-9300 (24/7)

Fax: (816)-781-1043

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

Appearance and odour:

Yellow to brown liquid Appearance

Odour Mild odour

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Statements of Hazard

None

#### **Potential Health Effects**

Primary routes of entry by skin or eye contact.

Eye contact - prolonged or repeated exposure may cause transient irritation. Skin contact - prolonged or repeated exposure may cause transient irritation. Inhalation - prolonged or repeated exposure may cause transient irritation. Ingestion of large amounts may cause slight gastrointestinal irritation.





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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical description

Neutral solution of synthetic organic polymer.

#### Hazardous component(s)

Ingredient	CAS Number	EC Number	%	Symbol	Risk Phrases
No hazardous					
ingredients above					
1%					

#### 4. FIRST-AID MEASURES

Inhalation Remove patient to fresh air, allow to rest and keep warm.

Seek medical attention if symptoms develop.

Skin contact Wash with plenty of water. Remove any contaminated

clothing and launder before reuse. Seek medical attention if

symptoms develop.

Eye contact Flush immediately with plenty of water for at least 15

minutes, keeping eyelids open. Seek medical attention if

symptoms develop.

Ingestion DO NOT induce vomiting! Rinse mouth out with water, but

do not give anything to drink. Seek medical attention if

symptoms develop.

Personal precautions Ensure that those giving first aid treatment do not get

contaminated by product spills, etc. Wear suitable protective clothing, gloves and eye protection. See also

Section 8.

## 5. FIRE-FIGHTING MEASURES

- Suitable Water, foam, carbon dioxide, dry powder.

- Not to be used None

Special exposure hazards

Oxides of carbon, nitrogen and sulphur evolved in fire.

Protective electrical prote

Special protective equipment for fire fighters Protective clothing and self-contained breathing apparatus.

Flash point Not flammable.





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# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear suitable protective clothing, gloves and eye protection.

See Section 8 for details. Keep unnecessary personnel away. Environmental precautions Prevent from entering sewers or the immediate environment.

In case of large spill, inform local authorities.

Methods for cleaning up

on soil Absorb onto inert material such as earth, soil or specialist

absorbent. Collect and place into sealed container for safe

disposal (see Section 13).

on water None known.

## 7. HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Do not ingest or inhale

vapours or spray.

Storage Keep in original containers. Keep container tightly closed.

Store in cool, well ventilated area. Protect from freezing

and from high temperatures.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended engineering controls Ensure good ventilation. Arrange for eye wash possibility.

Control parameters: None set.

Monitoring procedures Not required.

Personal protection

Always check applicability with your supplier of protective equipment.

Respiratory protection In case of insufficient ventilation, wear full face or half face

mask fitted with filter suitable for liquid particulates.

Skin protection Laboratory coat or overalls if splashing or repeated contact

with product is likely.

Eye protection Chemical goggles or full face visor.

- Hand protection Plastic, impervious gloves for protection against

unintentional short-term contact. However, since glove performance is governed by many variables, it is strongly recommend that specialist advice on the selection and use of

protective gloves is sought.





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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Yellow to brown liquid

Odour Mild pH (concentrated product) 6.6

Melting point (°C) Approx 0 [32°F]
Boiling point/range (°C) Approx 100 [212°F]
Flash point (Pensky Martens) (°C) Not flammable

Explosive properties None Oxidising properties None Density at  $20^{\circ}\text{C}$  (kg/m³) 1033

Solubility in water (% by weight) Completely miscible

Viscosity at 20°C (mPas) 10 Relative vapour density (air=1) < 1 Evaporation rate (ether=1) < 1

Note: These are typical values and do not constitute a specification.

## 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use.

Conditions to avoid Protect from freezing.

Materials to avoid None known.

Hazardous decomposition products

Oxides of carbon, nitrogen and sulphur evolved in fire.

#### 11. TOXICOLOGICAL INFORMATION

Test data: No data available on product.

Calculated from ingredient data:

- Oral LD<sub>50</sub> rat (mg/kg) > 30,000- Dermal LD<sub>50</sub>, rabbit (mg/kg) > 14,000

Exposure hazard:

- Inhalation Prolonged or repeated exposure may cause transient

irritation.

Skin contact
 Prolonged or repeated exposure may cause transient

irritation.

- Eye contact Prolonged or repeated exposure may cause transient

irritation.

Ingestion Likely symptoms are slight gastrointestinal irritation.





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>7,000

Other data None available.

## 12. ECOLOGICAL INFORMATION

Aquatic toxicity:

**Environmental effects:** 

No data available on product.

Calculated data based on ingredients

- Daphnia Magna (mg/l) EC<sub>50</sub> 48 Hr:

Not classified as hazardous to the environment under the EU

classification system.

# 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

#### 14. TRANSPORTATION INFORMATION

Not classified as dangerous for transport.

#### 15. REGULATORY INFORMATION

The label shows a CAUTION. Keep Out of Reach of Children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water.

Names of the ingredients given on the label: None

R phrases: None.

S 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 water.

**Inventory Status** 

TSCA All ingredients of this product are listed unless specifically

exempted.

California Proposition 65 Does not contain any chemicals known to the State of

California to cause cancer, birth defects or other

reproductive harm.

EU All ingredients of this product are listed in EINECS or ELINCS,

unless specifically exempted under EU Directive 67/548/EEC

(as amended).





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Right to know classification:

None are listed in CA, PA, MN, MA, MI, FL and NJ.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions, which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

Hazardous Material Information (HMIS)			National Fire Protection Association (NFPA)		
Health	0	0	Health		
Fire	0	0	Fire		
Reactivity	0	0	Instability		
Personal Protection	G		NA		

Health 4 Deadly 3 Extreme Danger 2 Dangerous 1 Slight hazard 0 No hazard Fire 4 < 73 °F 3 < 100 °F 2 < 200 °F 1 > 200 °F 0 Will not burn Reactivity/Instability 4 - May detonate 3 Explosive 2 Unstable 1 Normally stable 0 Stable

#### EU labelling information

- Symbol(s) None required

- R-Phrase(s) None assigned

- S-Phrase(s) 2 Keep out of the reach of children

24/25 Avoid contact with skin and eyes

26 In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice

28 After contact with skin, wash immediately with

plenty of water

Version number

Date prepared August 2009
Supersedes Version Not applicable

Nature of revision First issue to OSHA standard.

R-phrases used in Section 3 None

Based on ANSI Z4000.1-2004 and EU Regulation 1907/2006

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