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# 1. PRODUCT AND COMPANY INFORMATION

Identification of the substance/preparation Sentinel X500

Use of the substance/preparation Inhibited antifreeze for central 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:

Appearance Clear colourless liquid
Odour Mild slightly sweet odour

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Statements of Hazard

CAUTION: May cause eye, skin, and respiratory tract irritation.

## **Potential Health Effects**

Target Organs: Central nervous system.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Chemical description

Propylene glycol inhibited with inorganic and organic corrosion and scale inhibitors and salts.

# Hazardous component(s)

Ingredient	CAS Number	EC Number	% by weight	Symbol	Risk Phrases
Propylene glycol	57-55-6	200-338-0	> 60	None	None, but has USA WEEL







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## 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 and nitrogen evolved in fire.

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

Flash point > 100°C (> 212°F) Combustible.

# 6. ACCIDENTAL RELEASE MEASURES

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

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

Accidental release of large quantities into the aquatic

environment may harm aquatic organisms. In case of large

spill, inform local authorities.

Methods for cleaning up

**Environmental precautions** 

- 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.







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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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended engineering controls

Ensure good ventilation. Arrange for eye wash possibility.

Control parameters: Propylene glycol

WEEL - 10 mg/m<sup>3</sup> 8 hr TWA

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

60

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear colourless liquid
Odour Mild slightly sweet

pH (5% aqueous solution)

Melting point (°C)

Boiling point/range (°C)

Flash point (Pensky Martens)

Approx 7.2

-58 [-72°F]

188 [370°F]

>100 [> 212°F]

Explosive properties

Oxidising properties

Density at 20°C (kg/m³)

None

1030-1045

Solubility in water (% by weight) Completely miscible

Viscosity at 20°C (mPas)

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







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### 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use.

Conditions to avoid None known. Materials to avoid None known.

Hazardous decomposition products

Oxides of carbon, nitrogen and phosphorus 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)
 > 5000 Not considered hazardous.

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 on

ingestion of large amounts (> 100ml).

Other data None available.

### 12. ECOLOGICAL INFORMATION

Aquatic toxicity: No data available on product.

Calculated data based on ingredients

- Fathead minnow (mg/l)  $LC_{50}$  96 Hr: > 10000 - Daphnia Magna (mg/l)  $LC_{50}$  48 Hr: > 10000

Persistence and degradability

Readily biodegradable except for some minor inorganic components

Bioaccumulative potential

- Bioaccumulation Not bioaccumulating

Summary

Environmental effects: Not classified as hazardous to the environment under the EU

classification system.







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### 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 CAUTION. May cause eye, skin, and respiratory tract irritation. 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: Propylene Glycol.

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).

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.







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## 16. OTHER INFORMATION

Hazardous Material Information (HMIS)			National Fire Protection Association (NFPA)		
Health	0	0	Health		
Fire	1	1	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 2

Date prepared January 2011

Supersedes Version 1 dated October 2009

Nature of revision Updated to 2010 ANSI standard.

R-phrases used in Section 3 None

Based on ANSI Z400.1/Z129.1-2010 and EU Regulation 1907/2006

End of document

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