

Safety Data Sheet

Product Code: Sentinel X500 Version: 2 Page 1 of 6 Date Prepared: January 2011

1. PRODUCT AND COMPANY INFORMATION

Identification of the substance/preparation Use of the substance/preparation

Company Identification Manufactured by Address and Telephone No. Sentinel X500 Inhibited antifreeze for central heating systems

Sentinel Performance Solutions Ltd. Douglas Products and Packaging 1550 East Old 210 Highway Liberty Missiouri, 64068 USA (816)-781-4250 (8am - 5pm) Chemtrec (800) 424-9300 (24/7) (816)-781-1043

Telephone for further information: Emergency Phone No. Fax:

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance and odour:AppearanceClear colourless liquidOdourMild 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	Symbol	Risk Phrases
			weight		
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.
Skin contact	Seek medical attention if symptoms develop. 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
Ingestion	symptoms develop. 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 - Not to be used	Water, foam, carbon dioxide, dry powder. 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.
Environmental precautions	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	
- 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 vapours or spray.	skin and eyes. Do not ingest or inhale				
Storage	Keep in original con Store in cool, well v	tainers. Keep container tightly closed. ventilated area.				
8. EXPOSURE CONTROLS/PERSO	ONAL PROTECTION					
Recommended engineering contr	ols Ensure good ventila	tion. Arrange for eye wash possibility.				
Control parameters:	Propylene glycol WEEL - 10 mg/m ³ 8	Propylene glycol WEEL - 10 mg/m³ 8 hr TWA				
Monitoring procedures	Not required					
Personal protection Always check applicability with y	your supplier of protective equipme	ent.				
- Respiratory protection		nt ventilation, wear full face or half face ter suitable for liquid particulates.				
- Skin protection		overalls if splashing or repeated contact				
Eye protectionHand protection	Chemical goggles or Plastic, impervious unintentional short- performance is gove	full face visor. gloves for protection against term contact. However, since glove erned by many variables, it is strongly ecialist advice on the selection and use of				

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odour pH (5% aqueous solution) Melting point (°C) Boiling point/range (°C) Flash point (Pensky Martens) (°C) Explosive properties Oxidising properties Density at 20°C (kg/m³) Solubility in water (% by weight) Viscosity at 20°C (mPas)

Clear colourless liquid Mild slightly sweet Approx 7.2 -58 [-72°F] 188 [370°F] >100 [> 212°F] None None 1030-1045 Completely miscible 60

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



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10. STABILITY AND REACTIVITY

Stability Conditions to avoid Materials to avoid Hazardous decomposition products Stable under normal conditions of use. None known. None known. Oxides of carbon, nitrogen and phosphorus evolved in fire.

11. TOXICOLOGICAL INFORMATION

Test data: Calculated from ingredient data:	No data available on product.				
 Oral LD₅₀ 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: Calculated data based on ingredients	No data available on product.			
- Fathead minnow (mg/I) LC ₅₀ 96 Hr:	> 10000			
- Daphnia Magna (mg/I) LC50 48 Hr:	> 10000			
Persistence and degradability Readily biodegradable except for some mino	r inorganic components			
Bioaccumulative potential - Bioaccumulation	Not bioaccumulating			
	to t blobball dating			
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)					ational Fire Protection ssociation (NFPA)	
	Health		0	(0	Health	
	Fire		1		1	Fire	
	Reactiv	ʻity		0	(0	Instability
	Personal Protection		G			NA	
Health Fire Reactivity,	/Instability	4 Deadly 4 < 73 °C 4 - May detonate	3 <	100 °C	2	! <	Dangerous1 Slight hazard0 No hazard< 200 °C
EU labelli	ng informat	ion					
- Symbol(s)			None req	uirec	Ł		
- R-Phrase(s)			None assigned				
- S-Phrase(s)			2 24/25 26 28		Keep out of the 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		
Date prepared Supersedes Version				2 January 2 1 dated 0 Updated	Octob		er 2009 0 ANSI standard.
R-phrases used in Section 3		None					
Based on ANSI Z400.1/Z129.1-2010 and EU Regulation 1907/2006							

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