



Product Code: X200 Version: 1 Page 1 of 6 Date Prepared: August 2009

1. PRODUCT AND COMPANY INFORMATION

Identification of the substance/preparationX200Use of the substance/preparationBoiler descaler for central heating systems.Company IdentificationSentinel Performance Solutions Ltd.Manufactured byDouglas Products and PackagingAddress and Telephone No.1550 East Old 210 HighwayLibertyMissiouri, 64068USAUSA

Telephone for further information: Emergency Phone No. Fax:

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance and odour:AppearanceColourless liquidOdourMild odour

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

(816)-781-1043

Chemtrec (800) 424-9300 (24/7)

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.



Material 🖌 Safe



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description

Neutral solution of synthetic polymers, phosphonate salt and surfactant.

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.
Skin contact	Seek medical attention if symptoms develop. Wash with plenty of water. Remove any contaminated clothing and launder before reuse. Seek medical attention i 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 - Not to be used	Water, foam, carbon dioxide, dry powder. None.
Special exposure hazards	Phosphines and oxides of carbon, nitrogen and phosphorus
Special protective equipment for fire fighters	evolved in fire. Protective clothing and self-contained breathing apparatus.
Flash point	Not flammable.





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6. ACCIDENTAL RELEASE MEASURES					
Personal precautions	-	ve clothing, gloves and eye protection. ils. Keep unnecessary personnel away.			
Environmental precautions	0	sewers or the immediate of large spill, inform local authorities.			
Methods for cleaning up - on soil		erial such as earth, soil or specialist d place into sealed container for safe 3).			
- on water	None known.	, ,			
7. HANDLING AND STORAGE					
Handling	Avoid contact with skin vapours or spray.	n and eyes. Do not ingest or inhale			
Storage		Keep in original containers. Keep container tightly closed. Store between 12°C [53°F] and 55°C [140°F] in a well ventilated place.			
8. EXPOSURE CONTROLS/PERSONAL PRO	OTECTION				
Recommended engineering controls	Ensure good ventilation	n. Arrange for eye wash possibility.			
Control parameters:	None set.				
Monitoring procedures	Not required.				
Personal protection Always check applicability with your suppl	ier of protective equipment	t.			
- Respiratory protection		ventilation, wear full face or half face suitable for liquid particulates.			
- Skin protection		eralls if splashing or repeated contact			
Eye protectionHand protection	Chemical goggles or fu Plastic, impervious glo unintentional short-ter performance is govern	ives for protection against rm contact. However, since glove ed by many variables, it is strongly alist advice on the selection and use of			





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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid
Odour	Mild
pH (concentrated product)	10.3
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°C (kg/m ³)	1023
Solubility in water (% by weight)	Completely miscible
Viscosity at 20°C (mPas)	10
Pour point, (°C)	3 [57°F]
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

Stable under normal conditions of use. Protect from freezing. None known. Phosphines and oxides of carbon, nitrogen and phosphorus evolved in fire.

11. TOXICOLOGICAL INFORMATION

Test data: Calculated from ingredient data: – Oral LD ₅₀ rat (mg/kg) – Dermal LD ₅₀ , rabbit (mg/kg)	No data available on product. > 10,000 > 10,000
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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Other data	None available.	
12. ECOLOGICAL INFORMATION		
Aquatic toxicity: Calculated data based on ingredients	No data available on	product.
- Rainbow Trout (mg/I) LC ₅₀ 96 Hr: >	10,000	
Persistence and degradability - COD (mgO2/g) Other adverse effects	21	
- Nutrients	P = 0.83 mg/g	
Environmental effects:	Not classified as haza classification system.	ardous to the environment under the EU

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 Away From 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.



Safety Data Sheet

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EU	0	is product are listed in EINECS or ELINCS, xempted under EU Directive 67/548/EEC

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 Informatio			on (HMIS)	(HMIS) National Fire Protection Association (NFPA)]
	Health		0	C	Heal	Health		1	
	Fire			1	1	Fire			
	Reactiv	vity		0	C	Insta	bility		
	Persona	al Protection		G		NA			
Health Fire Reactivity/	Instability	4 Deadly 4 < 73 °C 4 - May detonate	3 -	Extreme Dang < 100 °C Explosive	2	Dangerous < 200 °C Unstable	1 Slight hazard 1 >200 °C 1 Normally stable	0	No hazard Will not burn Stable
EU labelling information - Symbol(s) None required - R-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 immed with plenty of water and seek medical adv 28 After contact with skin, wash immediately plenty of water					dical advice				
Supersedes Version Nature of revision			1 August 20 Not appli First issue None	cable	OSHA standa	ard.			
Based on ANSI Z4000.1-2004 and EU Regulation 1907/2006									

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