

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

1.	IDENTIFICATION OF THE SUBSTANCE/ COMPANY/UNDERTAKING	MIXTURE AND OF THE		
1.1	Product identifier Product Name: Chemical Name:	Sentinel R200 Mixture. (aqueous solution)		
	CAS No.: EC No.:	-		
1.2	Relevant identified uses of the substance or mix Identified use(s):	e or mixture and uses advised against Cleaning agent for solar thermal 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: Fax:	+44 (0) 1928 588 330 (office hours, Monday - Friday) +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. None. None.		
2.2.2	Label elements	According to Directive 67/548/EEC & Directive 1999/45/EC		
	Hazard pictogram(s): Hazard Symbol: Risk Phrases:	None. None. 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					
Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard symbol(s) and 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).	-	-	-	-	-

(aqueous solution: Neutral)

4. FIRST AID MEASURES

4.1	Description of first aid measures			
	Inhalation:	Remove patient from exposure, keep warm and at rest. If 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. If 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. If symptoms persist, obtain medical attention.		
	Ingestion:	Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. If symptoms persist, obtain medical attention.		
4.2	Most important symptoms and effects, both acute and delayed	May cause eye irritation. Repeated and/or prolonged skin contact may cause irritation. Ingestion may cause irritation of the gastrointestinal tract.		
4.3	Indication of the immediate medical attention and special treatment needed	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).		
5.	FIRE-FIGHTING MEASURES			
5.1	Extinguishing media Suitable Extinguishing Media: Unsuitable Extinguishing Media:	Water spray, foam, dry powder or CO2 Do not use water jet.		
5.2	Special hazards arising from the substance or mixture	Thermal decomposition will evolve toxic and flammable vapours. Carbon monoxide, Carbon dioxide.		
5.3	Advice for fire-fighters	A self contained breathing apparatus and suitable protective		



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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)	Cleaning agent for solar thermal systems.
8.	EXPOSURE CONTROLS/PERSONAL PR	OTECTION
8.1	Control parameters	No Occupational Exposure Limit assigned.
8.2 8.2.1 8.2.2	Exposure controls Appropriate engineering controls Personal Protection	Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved.
	Eye/face protection	Goggles giving complete protection to eyes. (EN 166)
	Skin protection	Protective gloves. Nitrile rubber. (EN 374)



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Respiratory protection



Other:

In case of insufficient ventilation, wear suitable respiratory equipment. (EN 141)

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: Colour: Odour: pH (Value): Flash Point (°C): Specific Gravity: Solubility (Water): Liquid. (aqueous solution) Colourless. Odourless. 12.94 (25 °C) None. 1.006 (20 °C) Miscible.

9.2 Other information

No data.

10. STABILITY AND REACTIVITY

- 10.1 Reactivity
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials
- 10.6 Hazardous Decomposition Product(s)

No information available. Stable under normal conditions. No information available. Keep away from heat, sources of ignition and direct sunlight. Acids. Thermal decomposition will evolve toxic and flammable vapours. Carbon monoxide, Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity: Ingestion: No information available. Inhalation: No information available. Skin Contact: No information available. Eye Contact: No information available. skin corrosion/irritation Repeated and/or prolonged skin contact may cause irritation. Serious eye damage/irritation: May cause eye irritation. respiratory or skin sensitization: No information available. **Mutagenicity:** No information available. Carcinogenicity: No information available. **Reproductive toxicity:** No information available. STOT-single exposure: No information available. STOT-repeated exposure: No information available. Aspiration hazard: No information available. Other information: No information available.



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WGK :1

Not

Biodegradable.

No information available.

No information available.

No information available.

classified

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 12.5 Results of PBT and vPvB assessment
- 12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation.

to

the

United

Nations

The product has no potential for bioaccumulation.

according

'Recommendations on the Transport of Dangerous Goods'.

14. TRANSPORT INFORMATION

- 14.1 UN number
- 14.2 Proper Shipping Name
- 14.3 Transport hazard class(es)
- 14.4 Packing Group
- 14.5 Environmental hazards
- 14.6 Special precautions for user
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture None. None. None. Not classified as a Marine Pollutant. None. Not applicable.

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.

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:



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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.