

Product

X100

Supersedes: Version 3, dated June 2013

Version: 4

X100

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## 1. PRODUCT AND COMPANY INFORMATION

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

Corrosion inhibitor for central heating systems

Company Identification	Manufactured by	Distributed by				
	Sentinel Performance Solutions	Douglas Products and Packaging				
	Ltd.					
Address	7650 Daresbury Park	1550 East Old 210 Highway				
	Warrington	Liberty				
	Cheshire, WA4 4BS	Missouri, 64068				
	UK	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

#### **GHS-US Classification**

Not classified as hazardous under HCS 2012

GHS-US labeling
Hazard pictograms (GHS-US) :
Signal word (GHS-US) :
Hazard statements (GHS-US) :
Precautionary statements (GHS-US) :

None required None required None required None required

Other information

Contains low levels of an oxidising ingredient

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical description**

Neutral solution of inorganic and organic corrosion inhibitors and salts.

## Hazardous component(s)

Ingredient	CAS Number	EC Number	w/w %	Classification (67/548/EEC)	Classification (GHS)
Sodium nitrate	7631-99-4	231-554-3	< 5	O, R8-22- 36/37/38	Ox. Solid Cat 3; H272 Acute Tox. Cat 4; H302
Sodium molybdate	7631-95-0	231-551-7	< 5	None	None - has PEL & TLV

Please refer to Section 16 where the full text of each relevant R phrase and H Statement is listed. Please refer to Section 8 for details of workplace exposure limit.



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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 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.

J. TIKE-TIGITTING WEAJUKES	
- 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	Not flammable.

## 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.



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7. HANDLING AND STORAGE	
Handling	Avoid contact with skin and eyes. Do not ingest or inhale vapors 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 PE	ROTECTION
Recommended engineering controls	Ensure good ventilation. Arrange for eye wash possibility.
Control parameters:	Molybdenum compounds (as Mo) soluble OSHA PEL - 5 mg/m <sup>3</sup> 8 hr TWA ACGIH TLV - 5 mg/m <sup>3</sup> 8 hr TWA
Monitoring procedures	Not required.
Personal protection Always check applicability with your supp	blier 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.
<ul><li>Eye protection</li><li>Hand protection</li></ul>	Chemical goggles or full face visor. 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 o protective gloves is sought.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Odor threshold pH (concentrated product) Melting point (°C) Boiling point/range (°C) Flash point Evaporation rate (ether=1) Flammability (solid/gas) Vapor pressure Vapor density Colourless to yellow liquid Mild No information available 6.4 Approx 0 [32°F] Approx 100 [212°F] Not flammable No information available Not relevant No information available No information available



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Explosive properties Density at 20°C [68°F] (kg/m<sup>3</sup>) Solubility in water (% by weight) Partition coefficient (Octanol/water) Autoignition temperature Decomposition temperature Viscosity Oxidizing properties

None 1033 Completely miscible Not relevant Not flammable No information available No information available None

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

## 10. STABILITY AND REACTIVITY

Stability Conditions to avoid Materials to avoid Hazardous decomposition products

Stable under normal conditions of use. Protect from freezing. None known. Oxides of carbon and nitrogen evolved in fire.

11. TOXICOLOGICAL INFORMATION					
Test data: Calculated from ingredient data:	No data available on product.				
– Oral LD <sub>50</sub> rat (mg/kg)	> 5000 Not considered hazardous under the GHS classification system.				
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.				
Other data	None available.				



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# **12. ECOLOGICAL INFORMATION**

Aquatic toxicity: Calculated data based on ingredients		No data available on product.				
Ŭ		3680				
	NOEL :	1680				
- Daphnia Magna (mg/l)	LC50 48 Hr:	4080				
2 aprilla llagila (lligil)	NOEL :	2100				
Persistence and degradat	bility					
- COD (mgO2/g)	-	150 (calculated data)				
- BOD 5 (mgO2/g)		0 (calculated data)				
- BOD 28 (mgO2/g)		1 (calculated data)				
- Closed Bottle Test (% Degradation in 28 days)		2 (calculated data)				
- TOC (mg C/g)		50 (calculated data)				
Bioaccumulative potentia	I					
- Bioaccumulation		Not bioaccumulating				
(Refers to active compone	nt Sodium molybdate					
Mobility in soil		No information available				
Summary						
Environmental effects:		Not classified as hazardous to the environment under the GHS				
		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

UN number	None				
UN proper shipping name	None				
Transport hazard class(es)	None				
Packing group	None				
Environmental hazards	None				
Special precautions for user	None				
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code					
	Not applicable				

Does not fulfil any of the criteria for classification as dangerous for transport.



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15. REGULATORY INFORMATION	
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.

# 16. OTHER INFORMATION

	Hazardo	ous Material Infor	on (HMIS)		ational Fir	e Protection (NFPA)			
	Health	Health		1	1	Healt	Health		_
	Fire			0	0	Fire			
	Reactivity Personal Protection		1	0	Insta	Instability			
			G		NA				
Health Fire Reactivity,	'Instability	4 Deadly 4 < 73 °F 4 - May detonate	3	Extreme Danger < 100 °F Explosive		Dangerous < 200 °F Unstable	1 Slight hazard 1 >200 °F 1 Normally stable	0 0 0	No hazard Will not burn Stable

Version number Date prepared Supersedes Version Nature of revision 4 June 2015 3, dated June 2013 Updated to HSC 2012.



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R-phrases used in Section 3	8	Contact with combustible material may cause fire
	22 36/37/38	Harmful if swallowed Irritating to eyes, respiratory system and skin
H-statements used in Section 3	H272 H302	May intensify fire; oxidiser Harmful if swallowed

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