

Product
Code:

X100 Rapid Dose
Version: 4

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Date Prepared: August 2014

1. IDENTIFICATION

Identification of the substance/preparation **X100 Rapid Dose**
Use of the substance/preparation Corrosion inhibitor for central heating systems

Company Identification	Manufactured by	Distributed by
	Sentinel Performance Solutions Ltd.	Douglas Products and Packaging
Address	7650 Daresbury Park Warrington Cheshire, WA4 4BS UK	1550 East Old 210 Highway Liberty Missouri, 64068 USA
Telephone for further information	+44 (0) 1928 704 330	(816)-781-4250 (8am - 5pm)
Emergency Phone No.	+44 (0) 1928 704 339 (24/7)	Chemtrec (800) 424-9300 (24/7)
Fax:	+44 (0) 1928 562 070	(816)-781-1043

2. HAZARD IDENTIFICATION

GHS-US Classification

Not classified as hazardous under HCS 2012

GHS-US labeling

Hazard pictograms (GHS-US) : None required
Signal word (GHS-US) : None required
Hazard statements (GHS-US) : None required
Precautionary statements (GHS-US) : None required

Special labeling for Aerosols : Pressurized container: Do not pierce or burn, even after use.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.



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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	1 - 5	O; R8-22	Ox. Solid Cat 3; H272 Acute Tox. Cat 4; H302
Disodium molybdate	7631-95-0	231-551-7	1 - 5	None *	None *
Benzotriazole	95-14-7	202-394-1	1 - 3	Xn; R20/22- 36-52/53	Acute Tox. Cat 4; H302 Acute Tox. Cat 4; H332 Eye Irrit. Cat 2; H319 Aq Chronic Cat 3; H412

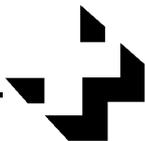
Please refer to Section 16 where the full text of each relevant R phrase and H Statement is listed.

* Has workplace exposure limit, please refer to Section 8 for details.

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.

Prolonged or repeated exposure may cause transient skin, eye or respiratory tract irritation. Ingestion of large amounts may cause slight gastrointestinal irritation.



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5. FIRE-FIGHTING MEASURES

- Suitable	Water spray, foam, carbon dioxide, dry powder.
- Not to be used	Water jet.
Special exposure hazards	Exposure to heat may cause bursting of aerosol containers. Oxides of carbon, nitrogen and phosphorus evolved in fire.
Special protective equipment for fire fighters	Protective clothing and self-contained breathing apparatus.
Flash point	Not flammable.

6. ACCIDENTAL RELEASE MEASURES

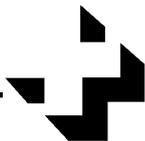
Personal precautions	Wear suitable protective clothing, gloves and eye protection. See Section 8 for details. Keep unnecessary personnel away.
Environmental precautions	Prevent from entering sewers or the immediate environment. Accidental release of large quantities into the aquatic environment may harm aquatic organisms. In case of large spill, inform local authorities.
Methods for cleaning up	
- on soil	Collect undamaged containers. In case of liquid spills, 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	Collect undamaged containers.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Do not ingest or inhale vapors, mists or spray. Do not eat, drink or smoke during work. Wash hands thoroughly after use.
Storage	Keep in original containers. Store in cool, well ventilated area below 50 °C/122 °F. Keep away from heat and sources of ignition. Keep away from direct sunlight. Protect from frost.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended engineering controls	Ensure good ventilation. Arrange for eye wash possibility.
Control parameters:	Molybdenum compounds (as Mo) soluble OSHA PEL - 5 mg/m ³ 8 hr TWA ACGIH TLV - 5 mg/m ³ 8 hr TWA
Monitoring procedures	Not required



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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.
- Hand protection 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 of protective gloves is sought.

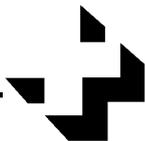
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Aerosol can containing yellow to amber aqueous liquid
Odor	Mild
Odor threshold	No information available
pH (concentrated product)	6.4
Melting point (°C)	-13 [9°F]
Boiling point/range (°C)	104 [219°F]
Flash point	Not flammable
Evaporation rate (ether=1)	< 1
Flammability (solid/gas)	Not relevant
Vapor pressure	No information available
Vapor density	No information available
Explosive properties	None
Relative Density	1.22
Solubility in water (% by weight)	Completely miscible
Partition coefficient (Octanol/water)	Not relevant
Autoignition temperature	Not flammable
Decomposition temperature	No information available
Viscosity	No information available
Oxidizing properties	None

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

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use.
Conditions to avoid	Do not expose to heat or flames. Protect from freezing.
Materials to avoid	None known.
Hazardous decomposition products	Oxides of carbon, nitrogen and phosphorus evolved in fire.



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11. TOXICOLOGICAL INFORMATION

Test data:	No data available on product.
Calculated from ingredient data:	
- Oral LD ₅₀ 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.

12. ECOLOGICAL INFORMATION

Aquatic toxicity:	No data available on product.
Calculated data based on ingredients	
- Fathead minnow (mg/l) LC ₅₀ 96 Hr:	1840
NOEL :	840
- Daphnia Magna (mg/l) LC50 48 Hr:	2040
NOEL :	1050
Persistence and degradability	
All organic components are biodegradable.	
Bioaccumulative potential	
- Bioaccumulation	Not bioaccumulating
Mobility in soil	
Summary	No information available
Environmental effects:	Not classified as hazardous to the environment under the GHS 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

UN number	1950
UN proper shipping name	Aerosols, Non-toxic, non-flammable gas
Transport hazard class	2.2
Packing group	Not Applicable
Environmental hazards	None
Special precautions for user	None
Limited quantity	1 litre.

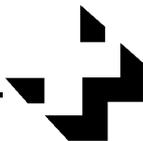
15. REGULATORY INFORMATION

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

Hazardous Material Information (HMIS)		National Fire Protection Association (NFPA)	
Health	0	0	Health
Flammability	0	0	Fire
Physical	1	0	Instability
Personal Protection	B		NA



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Health	4 Deadly	3 Extreme Danger	2 Dangerous	1 Slight hazard	0 No hazard
Flammability/Fire	4 < 73 °F	3 < 100 °F	2 < 200 °F	1 >200 °F	0 Will not burn
Physical/Instability	4 - May detonate	3 Explosive	2 Unstable	1 Normally stable	0 Stable

Version number	4
Date prepared	August 2014
Supersedes Version	3 dated June 2013
Nature of revision	Updated to HCS 2012.

R-phrases used in Section 3	8	Contact with combustible material may cause fire
	20/22	Harmful by inhalation and if swallowed
	22	Harmful if swallowed
	36	Irritating to eyes
	52/53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment

H-statements used in Section 3	H272	May intensify fire; oxidiser
	H302	Harmful if swallowed
	H319	Causes serious eye irritation
	H332	Harmful if inhaled
	H412	Harmful to aquatic life with long lasting effects

Based on HSC 2012 and EU Regulation 1907/2006

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