

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/29/2017 Revision date: 05/29/2017 Version: 1.0

SDS No: 12301-0010

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Sentinel X100 Rapid-Dose 300ml
Other means of identification : Sentinel X100 Rapid-Dose 400ml

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Corrosion and Scale Inhibitor for Heating and Cooling Systems

1.3. Supplier

Manufacturer

Sentinel Performance Solutions LTD 7650 Daresbury Park, Daresbury Warrington, Cheshire, WA4 4BS T +44 (0)1928 704 330 - F +44 (0)1928 562 070

info.uk@sentinelprotects.com

Distributor

Douglas Products & Packaging 1550 East Old 210 Highway Liberty, Missouri 64068 - USA

T (816)-781-4250 (8am - 5pm) - F (816)-781-1043

1.4. Emergency telephone number

Emergency number : Chemtrec (800) 424-9300 (24/7)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
benzoic acid	(CAS-No.) 65-85-0	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372
1H-Benzotriazole	(CAS-No.) 95-14-7	1 - 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 Aquatic Chronic 2, H411

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and

water. Wash skin with plenty of water.

First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse eyes with water as a precaution.

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First-aid measures after ingestion

: Do NOT induce vomiting. Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

Most important symptoms and effects (acute and delayed)

No additional information available

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Explosion hazard : Pressurized container: may burst if heated. Reactivity : Pressurized container: may burst if heated.

5.3. Special protective equipment and precautions for fire-fighters

: Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to Firefighting instructions

enter drains or water courses.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no

smoking.

6.1.2. For emergency responders

Do not attempt to take action without suitable protective equipment. For further information Protective equipment

refer to section 8: "Exposure controls/personal protection".

Environmental precautions 6.2.

Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

: Dispose of materials or solid residues at an authorized site. Other information

Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Pressurized container: Do not pierce or burn, even after use.

: Do not eat, drink or smoke when using this product. Always wash hands after handling the Hygiene measures

product.

Conditions for safe storage, including any incompatibilities

Store in original container. Keep container closed when not in use. Protect from sunlight. Do Storage conditions not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep

cool.

SECTION 8: Exposure controls/personal protection

Control parameters

1H-Benzotriazole (95-14-7)

Not applicable

benzoic acid (65-85-0)

Not applicable

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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Chemical goggles or safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Aerosol.

Color : colorless to yellow, amber

Odor Barely perceptible Odor threshold : No data available рΗ 6.5 @ 25°C Melting point No data available : No data available Freezing point 104 °C @ 760mm Hg Boiling point Flash point : Not flammable : No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) : Not flammable. Vapor pressure : No data available Relative vapor density at 20 °C No data available

Relative density : 1.3

Solubility : Miscible with water.

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosion limits : No data available

Explosive properties : Product is not explosive. Pressurized container: may burst if heated.

Oxidizing properties : Non oxidizing material.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Pressurized container: may burst if heated.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

1H-Benzotriazole (95-14-7)		
ATE US (oral)	500 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	

Skin corrosion/irritation : Not classified

pH: 6.5 @ 25°C

Serious eye damage/irritation : Not classified

pH: 6.5 @ 25°C

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated

exposure

: Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Empty containers should be taken for recycling, recovery or waste in accordance with local

regulation.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Transport document description (IMDG) : UN 1950 AEROSOLS, 2.2

UN-No. (IMDG) : 1950
Proper Shipping Name (IMDG) : AEROSOLS
Class (IMDG) : 2 - Gases
Limited quantities (IMDG) : SP277
MFAG-No 126

Air transport

Transport document description (IATA) : UN 1950 Aerosols, non-flammable, 2.2

UN-No. (IATA) : 1950

Proper Shipping Name (IATA) : Aerosols, non-flammable

Class (IATA) : 2

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

1H-Benzotriazole (95-14-7)		
EPA TSCA Regulatory Flag TP - TP - indicates a substance that is the subject of a proposed Section 4 test rule u TSCA.		
benzoic acid (65-85-0)		
CERCLA RQ	5000 lb	

15.2. International regulations

CANADA

1H-Benzotriazole (95-14-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

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California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

benzoic acid (65-85-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Revision date : 05/29/2017

Full text of H-phrases:

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H372	Causes damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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