

SAFETY DATA SHEET

In conformity with Regulation (EC) 1907/2006 Annex II

Trade name: SpiroPlus Protector
Revision date: 07-10-2011

Version: 2

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

Product name:	SpiroPlus Protector
Application:	Agent for corrosion protection in closed water-carrying systems.
Manufacturer:	Spirotech B.V. - Churchillaan 52 - 5705 BK Helmond, The Netherlands tel. +31 (0)492 - 57 89 89 during office hours (08:00-17:00)
E-mail:	kam@spirotech.nl

Telephone number for emergencies	In case of an emergency, contact the National Poisons Information Centre, tel. +31 (0)30-2748888 (only contact in emergencies and/or for treatment by a physician in cases of suspected poisoning).
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2. IDENTIFICATION OF RISKS

This is a safe product. In most cases, no risks are to be expected. Minor inconveniences may occur.

3. COMPOSITION AND INFORMATION ABOUT HAZARDOUS COMPONENTS

Hazardous component	%	Symbol	R-phrases	CAS no.	EINECS no.
	1-10%	MONOPROPYLENE GLYCOL		57-55-6	200-338-0
	1-10%	BORIC ACID		10043-35-3	233-139-2
	1-10%	POTASSIUM NITRATE	[O] R8; [Xn] R22; [Xi] R36/37/38	7757-79-1	231-818-8
	1-10%	BENZOTRIAZOLE	[Xn]R20/21/22 [Xi] R36/37/38	95-14-7	202-394-1

4. MEASURES FOR FIRST AID

General	Always obtain medical advice as soon as possible in case of serious or persistent disorders.
Skin contact	May cause mild irritation to areas of broken or sensitive skin. There may be mild discomfort and redness. First rinse with plenty of water, then contact a physician, if necessary.
Eye contact	May cause mild irritation. First rinse with plenty of water, then contact a physician.
Swallowed	May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Do not induce vomiting. If conscious, wash the mouth out with water. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhaled	Not applicable under normal conditions of use. In case of serious and persistent disorders: fresh air, rest and contact a physician.

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5. FIRE-FIGHTING AGENTS

Product properties	In combustion emits toxic fumes.
Extinguishing agents to be avoided	No known unsuitable extinguishing media. Use extinguishing media suitable for other constituents of the fire.
Special precautions in case of fire	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE OF THE PRODUCT

Preventive measures	Keep in properly closed packaging and out of reach of children
Personal precautions	Do not eat, drink or smoke while working. Wear suitable protective clothing. Do not attempt to take action without suitable protective clothing.
Environmental precautions	Do not discharge into drains or rivers. Contain the spillage using bunding.
Measures in case of leaks	Absorb into dry earth or sand. Transfer to a suitable container. Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

Special precautions for storage and handling	Keep in a properly closed packaging in a closed, frost-free, ventilated room
Packaging material to be avoided	None
Preventive measures	Handle with care to avoid leaks

8. MEASURES FOR EXPOSURE CONTROL/PERSONAL PROTECTION

Protection against inhaling	None
Skin protection	Chemical-resistant gloves
Eye protection	Goggles
Other protection	Protective clothing



Below is a list of hazardous components mentioned under item 3, the Workplace exposure limits values of which are known:

MONOPROPYLENE GLYCOL: WEL (8 hr TWA): 150 ppm (470 mg/m³) WEL (15 min STEL): Not Determined.

BORIC ACID: WEL (8 hr TWA): See Section 16 WEL (15 min STEL): See Section 16

POTASSIUM NITRATE: WEL (8 hr TWA): See Section 16 WEL (15 min STEL): See Section 16

BENZOTRIAZOLE: WEL (8 hr TWA): See Section 16 WEL (15 min STEL): See Section 16

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9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point/melting range in °C	0
Boiling point/boiling range in °C	100-360
pH	7.0
Vapour pressure at 20°C, Pa	2332
Relative density at 20°C	1.04
Physical status at 20°C	Liquid
Flash point in °C	> 100
Spontaneous ignition in °C	No data available
Water-solubility	Completely soluble
Odour	Slightly Aromatic
Dynamic viscosity at 20°C, mPa.s	1
Kinematic viscosity at 20°C, mm ² /s	1
Volatile organic substance (VOS) in %	No data available
Volatile organic substance (VOS) in g/l	33

10. STABILITY AND REACTIVITY

Hazardous reaction	In combustion emits toxic fumes.
Conditions to be avoided	None known

11. TOXICOLOGICAL INFORMATION

About the preparation itself	Not applicable with respect to the current EEC preparations directive
General information	See ingredients under item 3
Calculated acute toxicity, LD50 oral rat	2660 mg/kg

12. ENVIRONMENTAL INFORMATION

About the preparation itself	Not applicable with respect to the current EEC preparations directive
General information	See ingredients under item 3
Biological degradability	Not applicable with respect to the current EEC preparations directive
WGK	2

13. INSTRUCTIONS FOR DISPOSAL

The product may be discharged in the stated concentrations of use, if necessary after neutralisation to pH 7. Always observe any restrictions imposed by local authorities.

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14. INFORMATION WITH RESPECT TO TRANSPORT

The product has not been classified for any type of transport.*

15. LEGALLY MANDATORY INFORMATION

Symbols	None
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Risk phrases: See item 16

Safety phrases:

S 2	Keep out of reach of children
S 36/37/39	Wear appropriate protective clothing, gloves and eye/face protection

Contains	/
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16. OTHER INFORMATION

R-phrases mentioned under item 3 are not applicable to the preparation.

Risks concerning the preparation and its composite hazardous substances:

R8: Contact with combustible material may cause fire.

R22: Harmful if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

Composition according to Regulation (EC) No. 648/2004:

Reasons for revision of/amendment to the following items: /

This safety data sheet has been drawn up in conformity with Annex II of the REACH directive (EC) 1907/2006. Classification has been calculated in accordance with the European Directive 67/548/EEC and 1999/45/EC with their respective amendments. This safety data sheet has been drawn up with the utmost care. However, we cannot accept any liability for damage of any nature resulting from the use of this data or of the product concerned. The user is responsible for taking the measures required for compliance with local law and regulations. The information only concerns the product mentioned and does not guarantee the quality and the completeness of the properties of the product nor if the product is used in combination with other products or in any other process. Prior to using this preparation for an experiment or a new application, the user should perform a material suitability and safety test him/herself.

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