

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the substance or preparation:

PRODUCT NAME: **C519**
CHEMICAL IDENTITY: Aqueous solution of molybdate, zinc, polymers and azoles
RECOMMENDED USE: Corrosion and Scale Inhibitor for Cooling Water

1.2

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2. HAZARDS IDENTIFICATION

Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment

CLASSIFICATION: R52/53

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No	CAS No	Content	Classification
SODIUM HYDROXIDE	215-185-5	1310-73-2	<1%	C;R35
SODIUM MOLYBDATE	231-551-7	7631-95-0	1-5%	Xi;R36/37/38
SODIUM TOIYLTRIAZOLE	265-004-9	64665-57-2	1-5%	Xn;R22, C;R34
ZINC CHLORIDE	231-592-0	7646-85-7	<1%	C;R34, N;R50/53

The full text for all R-Phrases are Displayed in Section 16

4. FIRST AID MEASURES

Inhalation: Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

Ingestion: Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort discontinues.

Skin Contact: Remove affected person from source of contamination. Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

Eye Contact: Remove victim immediately from source of exposure. Immediately rinse with water for several minutes. Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES

Extinguishing Media: This product is not flammable. Use fire-fighting extinguishing media appropriate for surrounding materials.

Unusual Fire & Explosion Hazards: No unusual fire or explosion hazards noted.

Protective Measures in Fire: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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6. ACCIDENTAL RELEASE METHODS

Personal Precautions: Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental Precautions: Avoid discharge to the aquatic environment
Spill Clean up Methods: Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.

7. HANDLING AND STORAGE:

Usage Precautions: Avoid spilling, skin and eye contact. Avoid breathing mists of this product. Avoid eating, drinking and smoking when using the product.
Storage Precautions: Keep upright. Store in tightly closed original container in a dry and cool place.
Storage Class: Chemical storage

8. EXPOSURE CONTROLS

Name	Std	LT – ppm	LT – mg/m3	ST – ppm	ST – mg/m3
ZINC CHLORIDE	OES				2 mg/m3
SODIUM HYDROXIDE	OES				2 mg/m3

Ingredient Comments

OES = Occupational Exposure Standard

Protective Equipment

Approved safety glasses and gloves

Hand Protection:

For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye Protection:

Wear approved tight fitting safety glasses where splashing is probable.

Respiratory Protection:

Type approved RPE for mists

Other Protection:

Wear suitable protective clothing as protection against splashing or contamination

Hygiene Measures:

Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid
Colour: Blue green
Odour: Slight
Solubility: Completely soluble in water
Relative Density: 1.07
pH Value, Conc solution: 9.5 – 10.5

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions and recommended use
Conditions to Avoid: Avoid excessive heat for prolonged periods of time.

11. TOXICOLOGICAL INFORMATION

Inhalation: May cause irritation to the respiratory system
Ingestion: May cause discomfort if swallowed
Skin Contact: Liquid may irritate skin
Eye Contact: Spray and vapour in the eyes may cause irritation and smarting

12. ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

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13. DISPOSAL CONSIDERATIONS	
Disposal Methods	Dispose of waste and residues in accordance with local authority requirements
Container	Triple rinse empty container thoroughly with water before disposal.

14. TRANSPORT INFORMATION	
LAND TRANSPORT	
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)	

15. REGULATORY INFORMATION	
Risk Phrases	R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Safety Phrases	S60 This material and its container must be disposed of as hazardous waste
UK Regulatory References	Chemicals (Hazard Information & Packaging) Regulations
Approved Code of Practice	Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

16. OTHER INFORMATION	
Revision Date:	3-2008
Risk Phrases in Full	R22 Harmful if swallowed R34 Causes burns R35 Causes severe burns R36/37/38 Irritating to eyes, respiratory system and skin R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

DISCLAIMER

This data sheet does not constitute a User's Assessment of Workplace Risk as required by HSW Act, COSHH, Management of Health and Safety at Work Regulations, or other Health and Safety Legislation. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.