

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

**Product Name**    **Accepta 2510**

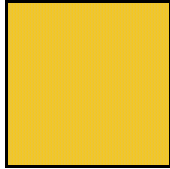
**Application**     A liquid biocide for the control of bacteria, fungi and algae in open recirculating cooling systems, evaporative condensers and closed systems.

**Supplier**        **ACCEPTA LTD**  
 Statham House, OldTrafford  
 Manchetser, M32 0FP, UK  
 Tel: +44 (0)161 877 2334   Fax: +44 (0)870 135 6389  
 E.Mail: sales@accepta.com

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No	% (active)	EINECS-No.	Symbols	R-phrases
2-Bromo-2-Nitro-1,3-propanediol	52-51-7	10 - 25%	200-143-0	Xn-Harmful,	R21/22, R37/38, R41, R50/53,
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## 3. HAZARDS IDENTIFICATION



Physical / chemical hazards:    Harmful

Environmental Hazards:        Aqueous solutions will kill wild life, aquatic life and fish.

Human health hazards:        Harmful if swallowed  
 Irritating to the skin

## 4. FIRST AID MEASURES

**Ingestion:**        May cause marked irritation of the mouth, throat, oesophagus and stomach. There will be discomfort or pain in the mouth, throat, chest, abdomen, nausea, vomiting, diarrhoea,, dizziness, faintness, drowsiness, weakness, thirst,circulatory collapse and coma.

Wash out mouth thoroughly with water. Give water to drink. Vomiting may be induced.

**Inhalation:**        No known ill effects

Not applicable

**Skin contact:**    Irritation and redness of skin. Soreness on prolonged contact.

Wash with soap and water. Remove contaminated clothing for washing. Consult doctor in accordance with symptoms.

**Eye contact:**    Severe irritation. Prolonged contact may cause damage.

Immediately rinse eye with sterile water for 20 minutes. Seek medical advice.

### 5. FIRE FIGHTING MEASURES

Flammability:	Non-flammable
Extinguishing media:	Water spray jet, extinguishing powder or foam, carbon dioxide .
Unsuitable extinguishing media:	None
Hazardous decompositions:	Evaporation to dryness and subsequent decomposition generates toxic fumes of nitrogen oxides .
Protective equipment:	Protective clothing and self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear full protective equipment - gloves, eye/face protection and overalls. Ensure sufficient air supply.
Environmental precautions:	Do not allow to enter water courses. Uncontrolled discharges must be alerted to the Environment agency or other appropriate body.
Methods of clean up:	Small spillages can be flushed to foul drain. Larger spillages should be contained, adsorbed onto inert material and collected into suitable plastic containers. Clearly label. Disposal should be handled by a licensed contractor in accordance with Waste Disposal regulations.

### 7. HANDLING AND STORAGE

Handling:	Avoid direct contact with product. Before eating, drinking or smoking wash hands with soap and water.
Storage:	Store at ambient temperature. Do not allow to freeze. Store away from foodstuffs. After dispensing product, ensure that the container is firmly secured.
Shelf life:	>12
Suitable packaging:	Polyethylene containers.
Unsuitable packaging:	Metals and alloys.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	Substance:	No materials present that are listed in EH40/2005.	
	Long term WEL (8 Hr):	ppm	mg/m3
	Short term WEL (15 min):	ppm	mg/m3
Engineering measures:	None		
Respiratory protection:	Not applicable unless aerosol formation possible, in which case appropriate respiratory protection must be worn.		
Skin, hand and body protection:	Overalls, boots and rubber gloves.		
Eye protection:	Chemical goggles or face shield.		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solution	Boiling point (C):	>100 C
Colour:	Clear	Decomposition temp (C):	Decomposes on heating
Odour:	None	Specific Gravity:	1.075
Molecular weight:		Solubility:	Completely miscible
pH:	3.0 - 5.0	Flash point (C):	-

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Thermal decomposition: Oxides of nitrogen, and carbon. Hydrogen bromide.

Conditions to avoid: High temperatures and evaporation of water.

Materials to avoid: Normally unreactive.

Hazardous reactions: Reacts with oxidising agents.

Decomposition products: Oxides of nitrogen, and carbon. Hydrogen bromide.

## 11. TOXICOLOGICAL INFORMATION (of hazardous constituents)

Acute toxicity: Oral; 2-Bromo-2-nitropropane-1,3 diol Harmful  
Dermal: 2-Bromo-2-nitropropane-1,3 diol Mildly irritating  
Inhalation: N/A  
Eye: Irritating to eyes.

Other data: Not sensitising in guinea pigs. Not embryotoxic or tetragenic in rats or rabbits. Not carcinogenic in mice. Not muagenic in bacteria.

## 12. ECOLOGICAL INFORMATION

Biodegradability and persistence: 2-Bromo-2-nitropropane-1,3 diol is readily broken down in the environment.

Ecotoxic effects: Product toxic to aquatic life.

Other data: Daphnia magna - LC50 (24Hr) 2-9 ppm. LC50(48Hr) 1.4 ppm. Rainbow trout - LC50 (24Hr) 33 ppm. LC50 (48Hr) 25.9ppm. LC50 (72 Hr) 22.6 ppm. LC50(96Hr) 20.0 ppm.

## 13. DISPOSAL CONSIDERATIONS

Methods of disposal: Small quantities can be disposed of via a foul drain. Larger quantities should be handled by a licensed contractor in accordance with Waste Disposal Regulations.

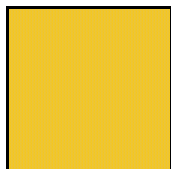
Packaging disposal: Return empty containers to the supplier for recycling or destroy by cutting up or by incineration. Do not use for potable water.

## 14. TRANSPORT INFORMATION

UN No.: N/A Proper shipping name: PROPER SHIPPING NAME - Nil hazard for transport

Mode	Regulation	Class	Packing group	Ems No.	Stowage	Code	Subsidiary risk
Road/Rail	European - ADR/RID	N/A	N/A				
Sea	IMO / IMDG						
Air	ICAO / IATA						

## 15. REGULATORY INFORMATION (Classification and labelling according to UK CHIP Regs/EEC Directive 88/379/EEC)



### Risk Phrases

- R22 Harmful if swallowed
- R38 Irritating to the skin
- R41 Risk of serious damage to eyes

### Safety phrases

- S23 Do not breathe gas/fumes/vapour/spray.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S28 After contact with skin, wash immediately with plenty of water.
- S37/39 Wear suitable gloves and eye/face protection

## 16. OTHER INFORMATION

The above information is based on current knowledge at the time of publication and is given in good faith. Accepta Ltd implies no warranty as to the suitability of the product for any purpose other than that outlined on the Product Data Sheet.

The information contained in this MSDS does not constitute an assessment of work place risks. The customer should undertake a formal COSHH assessment which should ensure that employees are aware of the hazards / precautions detailed in the MSDS. The COSHH assessment should ensure that the recommended safety equipment is available and where applicable, that the exposure limits detailed in section 8 are not being exceeded.

References: The Carriage of Goods by Road and Rail Regulations.  
The Control of Substances Hazardous to Health Regulations (COSHH).  
The Chemicals Hazard Information and Packaging Regulations (CHIP).