

SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name **ACCEPTA 2530**

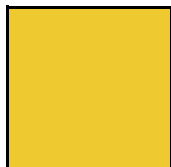
Application A liquid biocide for the control of bacteria, fungi and algae in open recirculating cooling systems and evaporative condensers.

Supplier **ACCEPTA LTD**
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No	% (active)	EINECS-No.	Symbols	R-phrases
Glutaraldehyde	111-30-8	5 - 15%	203-856	T-Toxic,	R23/25, R34, R42/43, ,
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3. HAZARDS IDENTIFICATION



Physical / chemical hazards: Corrosive

Environmental Hazards: Very toxic to aquatic life

Human health hazards: Harmful by inhalation and if swallowed
 Causes burns

4. FIRST AID MEASURES

Ingestion: Causes severe irritation or burns to mouth, gastrointestinal tract and stomach. There will be discomfort or pain, nausea, vomiting, diarrhoea, dizziness, faintness, drowsiness, weakness, thirst, circulatory collapse and coma.

Do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

Inhalation: Vapour is irritating to the respiratory tract, causing a stinging sensation in the nose and throat, discharge from nose, possible bleeding from nose, coughing, chest discomfort and tightness, difficulty with breathing and headache. Inhalation of material may aggravate asthma and inflammatory or fibrotic pulmonary disease.

Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.

Skin contact: Brief contact will cause itching with mild to moderate local redness and possible swelling. Prolonged contact will result in more severe effects with possible ulceration, tissue damage and bleeding. Will aggravate existing dermatitis. Prolonged or widespread contact may result in the adsorption of potentially harmful amounts of material.

Immediately remove contaminated clothing and shoes. Wash skin with soap and water. Obtain medical attention. Wash clothing before re-use.

Eye contact: Liquid will cause a severe and persistent conjunctivitis. Seen as excess redness and marked swelling of the conjunctiva with profuse discharge. Severe corneal injury may develop, which may permanently impair vision if prompt first-aid and medical treatment are not obtained. Vapour will cause sting sensation in the eye with excess tear production, blinking and possibly a slight redness of the conjunctiva.

Immediately flush eyes with water and continue washing for 15 minutes. Obtain medical attention without delay, preferably by an ophthalmologist.

Notes to doctor: The hazards of this material are due mainly to its severely irritant properties on skin and mucousal surfaces. Due to the severely irritating or corrosive nature of the material, swallowing may lead to ulceration and inflammation of the upper alimentary tract with haemorrhage and fluid loss. Also perforation of the oesophagus or stomach may occur, leading to mediastinitis or peritonitis and the resulting complications. The stomach should be evacuated carefully in case of ingestion. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents this should be done by means least likely to cause aspiration (eg gastric lavage after endotracheal intubation).

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable
Extinguishing media: Water spray jet, extinguishing powder or foam, carbon dioxide .
Unsuitable extinguishing media: None
Hazardous decompositions: Thermal decomposition will evolve carbon monoxide and carbon dioxide.
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 should be flushed with water to a foul drain. Large spillages should be controlled and collected into a plastic container (s), clearly labelled. Soiled product should be disposed of via an approved waste disposal contractor. Otherwise glutaraldehyde may be deactivated using dibasic ammonium phosphate (DAP). Addition of 1.25 mole equivalents of DAP will reduce the concentration of glutaraldehyde to approximately 20 ppm within 24 hrs at room temperature. (eg 3 kg of DAP would be added to 450 litres of a solution containing 5000 ppm glutaraldehyde).

7. HANDLING AND STORAGE

Handling: Do not get in eyes, on skin or on clothing. Avoid breathing vapour. Do not swallow. Use adequate ventilation. Wash thoroughly with soapy water after handling. Do not use product in the form of a spray or aerosol.
Storage: Store at ambient temperature. Do not allow to freeze. Store away from foodstuffs, alkalis and ammonium phosphate. After dispensing product, ensure that the container is firmly secured.
Shelf life: >12 months
Suitable packaging: Polyethylene containers.
Unsuitable packaging: Metals and alloys.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	Substance:	Glutaraldehyde	
EH64/C58, EH65/32	Long term WEL (8 Hr):	0.05 ppm	0.2 mg/m ³
	Short term WEL (15 min):	0.05 ppm	0.2 mg/m ³

Engineering measures: Ensure adequate ventilation of working area.
Respiratory protection: Use approved air purifying respirator with organic vapour cartridge fitted (Gas mask filter AX).
Skin, hand and body protection: Overalls, boots and rubber gloves.
Eye protection: Chemical goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid	Boiling point (C):	>100 C
Colour:	Colourless	Decomposition temp (C):	Decomposes at boiling point.
Odour:	Aldehyde smell	Specific Gravity:	1.026
Molecular weight:	-	Solubility:	Completely miscible
pH:	3-5	Flash point (C):	-

10. STABILITY AND REACTIVITY

- Stability: Stable under normal conditions.
- Thermal decomposition: Decomposes at and above boiling point.
- Conditions to avoid: High temperatures and evaporation of water.
- Materials to avoid: Metals and alloys.
- Hazardous reactions: Reacts with strong acids, alkali, oxidising agents and reducing agents.
- Decomposition products: Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION (of hazardous constituents)

- Acute toxicity: Oral; Glutaraldehyde (5-50% w/w) LD50 (oral, rat) 165-733 mg/Kg
Dermal: Glutaraldehyde (15-50% w/w) LD50 (dermal, rabbit) 13,850 mg/Kg
Inhalation: See section 8. Glutaraldehyde is irritating to the respiratory tract.
Eye: The threshold for induction of inflammatory effects by flooding the rabbits eye is ~ 0.25% (w/w).
- Other data: Not phototoxic nor a photo sensitiser. No evidence for any target organ toxicity. In vivo studies indicate no genotoxicity. At maternally non toxic levels no fetotoxic, embryotoxic or teratogenic effects observed.

12. ECOLOGICAL INFORMATION

- Biodegradability and persistence: Undergoes biological degradation readily (>70%) in the environment and has a low potential for bioaccumulation.
- Ecotoxic effects: Toxic to aquatic organisms, fish and wildlife.
- Other data: Do not allow product to reach ground water, water courses or sewage systems without prior decontamination.

13. DISPOSAL CONSIDERATIONS

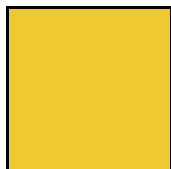
- Methods of disposal: Observe decontamination procedures in section 6 before discharging to foul drain. Otherwise all waste must be handled by a licensed waste disposal contractor.
- Packaging disposal: Plastic drums will be collected by supplier for recycling. Damaged containers should be destroyed by cutting up or incineration. Empty containers must not be used for potable water.

14. TRANSPORT INFORMATION

- UN No.: 3265 Proper shipping name: PROPER SHIPPING NAME - CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains gluteraldehyde)

Mode	Regulation	Class	Packing group	Ems No.	Stowage	Code	Subsidiary risk
Road/Rail	European - ADR/RID	8	II				
Sea	IMO / IMDG						
Air	ICAO / IATA						

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



Risk Phrases

- R20/22 Harmful by inhalation and if swallowed
- R34 Causes burns
- R42/43 May cause sensitisation by inhalation and skin contact
- R50 Very toxic to aquatic organisms

Safety phrases

- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S36/37/39 Wear suitable protective clothing gloves and eye/face protection
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- S61 Avoid release to the environment. Refer to special instructions/Safety Data Sheet

16. OTHER INFORMATION

The above information is based on current knowledge of the product at the time of publication and is given in good faith.

It is believed to be correct but does not purport to be all-inclusive and shall therefore be used only as a guide. ACCEPTA LTD implies no warranty with respect to the quality, specification or the suitability of the product. The client/user must completely satisfy themselves that the product is entirely suitable for the intended purpose.

In no event shall ACCEPTA LTD be held liable for any injury, loss or damage, to persons, plant or equipment or loss of production/sales resulting from its use or storage.

The information contained in this SDS 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 SDS. 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).