



Safety Data Sheet

Scale Inhibitor

BioGuard

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1 IDENTIFICATION OF CHEMICAL

Product Name: Scale Inhibitor
Chemical Name: 1-Hydroxyethylidene-1,1 Diphosphonic acid.
Other Names: Phosphonic acid, Phosphonic acid mixture.

2 COMPOSITION

Ingredients:	Wt%	CAS No.	EINECS No	EEC No.	Phrases
Phosphonic acid	<35	2809-21-4	--	220-552-8	R34 S2,24/25,26,37/38

3 HAZARD IDENTIFICATION

Corrosive: Causes burns. Causes skin and eye damage. Avoid contact with eyes, skin or clothing. Harmful if swallowed. May be irritating to nose and throat. Avoid breathing vapours.

4 FIRST AID MEASURES

Skin Contact: If contact with skin occurs, wash off excess chemical with soap and flush with cool water for at least 15 minutes. If skin irritation persists, seek immediate medical attention.

Eye contact: If contact with eyes occurs, immediately flush contaminated eye(s) with cool, gently flowing water for at least 20 minutes, holding eyelid(s) open. Take care not to splash contaminated water into the non-affected eye. Seek immediate medical attention.

Ingestion: If swallowed, drink large amounts of water or milk. **DO NOT INDUCE VOMITING.** Avoid alcohol. **NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.** Seek medical attention immediately.

Inhalation: If inhaled, remove individual to fresh air. If breathing is difficult, have a trained person administer oxygen. Seek medical attention immediately.

Note: When seeking medical attention, always show the product label.

5 FIRE FIGHTING MEASURES

Flammability:	Not applicable
Suitable extinguishers:	Water fog, dry powder.
Hazardous combustion products are:	No unusual decomposition products or fire hazards.

6 ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment as detailed in section 8.

Spillages and Leaks:

Contain and absorb the spillage with inert material such as sand. Sweep up the spill and place in clean, dry plastic containers including any contaminated soil. Dispose of product in accordance with relevant local and national waste disposal legislation.

7 HANDLING AND STORAGE

Handling:	DO NOT MIX WITH OTHER CHEMICALS. Mix only with water. Never add water to product. Always add product to water. Use clean dry dispensing equipment.
Storage:	Keep this product in original, closed container when not in use. Store in a cool, dry, well-ventilated area. Keep this product and all other chemicals out of reach of children.
Avoid contact with:	Other swimming pool/spa chemicals in their concentrated forms.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:	8hr TWA		15min STEL		Authority
	ppm	mg/m ³	ppm	mg/m ³	
Phosphonic acid	not listed				
General:	General room ventilation plus local exhaust should be used to minimise exposure. Remove and wash contaminated clothing before reuse.				
PPE	Respiratory:	Where mist emissions are possible, respiratory protection should be used			
	Skin:	Wear rubber gloves when handling this product. Avoid contact with skin.			
	Eyes:	Wear goggles or safety glasses with side shields when handling this product.			

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Odour:	Odourless
Appearance:	Clear
Colour:	Purple
Solubility in Water:	Miscible in water
Specific Gravity:	1.45 g/ml
pH:	1.2 – 1.4

10 STABILITY AND REACTIVITY

Conditions to avoid:	High temperature. Poor ventilation. Contamination
Stability:	This product is stable under normal conditions.
Polymerisation:	Hazardous polymerisation will not occur under normal conditions.
Decomposition products:	Oxides of phosphorous, carbon and nitrogen may be produced.
Incompatible materials:	Other swimming pool/spa chemicals in their concentrated forms. Bases and strong oxidising agents.

11 TOXICOLOGICAL INFORMATION

This product is corrosive to skin and eyes.
This product is not listed as a carcinogen.

12 ECOLOGICAL INFORMATION

This product may be toxic to fish and aquatic organisms.
Keep product from entering waterways and watersheds.

13 DISPOSAL CONSIDERATIONS

Disposal Method:	DO NOT put product, spilled product or filled or partially filled containers into the waste. Contact with incompatible materials could cause a reaction or fire. Disposal of unused, uncontaminated product is regulated according to local and national regulations.
Empty Containers:	DO NOT re-use container. Rinse thoroughly before discarding.

14 TRANSPORT INFORMATION

UN No:	1760
Primary Hazard:	Corrosive Liquid (NOS).
Packing Group:	III
Hazard ID No:	80
Class:	8
EAC:	2X

15 REGULATORY INFORMATION

Product name:	Scale inhibitor	
Hazard symbol:	Corrosive	
Risk Phrases:	R34	Causes burns
Safety Phrases:	S1/2	Keep locked up and out of reach of children
	S24/25	Avoid contact with skin and eyes.
	S26	In case of contact with eyes, rinse immediately with water and seek medical advice.
	S37/39	Wear suitable gloves and eye/face protection

16 OTHER INFORMATION

Recommended uses and restrictions: No further information.

Further information sources: No further information.

Sources of key data used to compile Safety Data Sheet.

Approved supply list. Approved carriage list, EH40, ACIGH tables.

The data in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1998, as amended, for the purpose of protecting the health and safety of industrial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.

This data sheet does not constitute a users assessment of the workplace risk as required by the Health and Safety at Work Act, COSHH, Management of Health and Safety at Work or other health and safety legislation.
