

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Product Name	<i>PRO-pHx</i>	
Alternative Names	<i>PRO-pHx</i> Acid Life Extender, Sodium Silicate Solution	
CAS No.	1344-09-8	Sodium acid, sodium salt
	64-19-7	Acetic acid
	7732-18-5	Water
EINECS No.	215-687-4	

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)	General purpose industrial chemical for use in a wide range of applications. Acid purification; Acid life extender; Industrial wastewater purification for controlled recycling; Cleaning compound.
Uses advised Against	None known.

1.3 Details of the supplier of the safety data sheet

Company identification	Wagner Environmental Technologies LLC 2295 Towne Lake Pky #264 Suite 116 Woodstock, GA 30189 USA
Telephone:	+1 770-485-5538
E-Mail (competent person)	WagTecA2Z@aol.com

1.4 Emergency telephone number

Emergency Phone No.	+1 800-424-9300
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification	Skin irrit. 2 Eye irrit. 2
Hazards summary	Alkaline Irritating to eyes and skin.

2.2 Label elements



Hazard pictogram(s)	
Signal word(s)	Warning
Hazard statement(s)	H315: Can cause skin irritation.

Precautionary statement(s) P262: Do not get in eyes, on skin, or on clothing.
 P280: Wear protective gloves / protective clothing / eye protection / face protection.
 P303 + P361 + P353: IF ON SKIN (or hair) Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other Hazards None known

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Regulation (EC) No. 1272/2008 (CLP)

Ingredient(s)	% WW	CAS No.	EINECS NO.	REACH Registration	Hazard symbol(s) and Hazard statement(s)
Silicate acid, silicate salt, sodium silicate	3.1	1344-09-8	215-687-4	# 811115-9	H319: Eye irrit. 2 H315: Skin irrit.2
Acetic acid	< 1%	64-19-7	200-580-7	# 811115-9	As above
Water	> 95.9%	7732-18-5	231-791-2		

SECTION 4: FIRST AID MEASURES

4.1 Description First Aid Measures

Eye Contact Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Skin Contact Wash affected skin with water. If symptoms develop, obtain medical attention.

Inhalations Remove patient from exposure, keep warm and rest. Obtain medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention.

4.2 Most Important Symptoms And Effects, Both Acute and Delayed Alkaline. Irritating to eyes and skin. Toxicity of sodium silicate is dependent on the silica to alkali ratio and on the pH. This product has only 3.1% amount silica.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media Compatible with all standard fire fighting techniques..

Unsuitable Extinguishing Media None known

5.2 Special Hazards Arising From Substance or Mixture Not applicable. Aqueous solution. Non-combustible.

5.3 Advice for Fire-Fighters None

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures Wear suitable protective clothing. Wear eye / face protection.

- 6.2 Environmental Precautions** Do not allow to enter drains, sewers or water courses. Advise authorities of spillage has entered water course or sewer or has contaminated soil or vegetation.
- 6.3 Methods and Materials for Containment and Clean Up** Caution – spillages will be wet can cause slipping. Contain spillage with adsorbent material. Transfer to a container for disposal or recovery.
- 6.4 Reference To Other Sections** See also Section 8.

SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions for Safe Handling** Avoid contact with eyes, skin and clothing. Avoid generation of mist. Provide adequate ventilation. Emergency shower and eye wash facilities should be readily available. See also Section 8.
- 7.2 Conditions for Safe Storage Including and Incompatibilities** Storage temperature 0-95° C. Loading temperature, ambient. If material freezes thaw, remix and use with no adverse reaction. Suitable containers, use plastic.
- 7.3 Specific End Use(s)** See also Annex to the extended Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Substance	Occupational Exposure Limits
Silicic acid, sodium salt	No Occupational Exposure Limit assigned. An exposure limit of 2 mg / m3 (15 minutes TWA is recommended By analogy with sodium hydroxide (UK EH40).

- 8.2 Exposure Controls** Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.
- 8.2.1 Appropriate Engineering Controls** Engineering methods to prevent or control exposure are preferred. Methods include process or personal exposure. Mechanical ventilation (dilution and local exhaust), and control of process condition.
- 8.2.2 Personal Protection**
 - Respiratory Protection Respiratory protection not normally required. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.
 - Eye / Face Protection Chemical goggles (EN 166).
 - Skin Protection Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example EN374-3, Level 6 breakthrough time (.480 minutes). Wear suitable overalls.
- 8.2.3 Environmental Exposure Controls** Primary hazard of sodium silicate is the alkalinity. Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Appearance	Liquid. Almost colorless
Odor	Odorless
Odor Threshold	Not applicable
pH Value	Aqueous. Approximately 10.50
Freezing Point	Not applicable
Melting Point	Not applicable
Boiling Point	100° C

Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (Solid, Gas)	Not applicable
Explosive Limit Ranges	Not applicable
Explosive Limit Ranges	Not applicable
Vapor Pressure (mm Hg)	Not applicable
Vapor Density (Air = 1)	> 1 Heavier than air
Density (Gallon)	8.2-8.4 # g
Solubility (Water)	Soluble
Solubility (Other)	No data
Partition Coefficient	No data
Auto Ignition Point	Not applicable
Decomposition Temperature	Not applicable
Viscosity (mPa.s)	Not applicable
Explosive Properties	Not applicable
Oxidizing Properties	Not applicable

9.2 Other Information No data

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity None Known

10.2 Chemical Stability Stable

10.3 Possibility of Hazardous Reaction None Known

10.4 Conditions To Avoid None Known

10.5 Incompatible Material(s) None Known

10.6 Hazardous Decomposition Product(s) None Known

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information On Toxicological Effects

Acute Toxicity

Ingestion All symptoms of acute toxicity are due to alkalinity. Material may cause irritation.
 Inhalation Non vaporous. Mist is irritant to respiratory tract. All symptoms of acute toxicity are due to alkalinity. Inhalation LC50 (rat) >2.06 g/m³.

Skin Contact Material may cause irritation. Dermal LD50 (rat).5000 mg/kg bw.

Eye Contact Skin Corrosion / Irritation Material may cause skin irritation.

Serious Eye Damage / Irritation Irritating to eyes.

Sensitisation No sensitizing.

Mutagenicity No evidence of genotoxicity. In vitro/in vivo negative.

Carcinogenicity No structural alerts. IARC, NTP, OSHA, ACGIH do not list this product as a known or suspected carcinogen.

Reproductive toxicity No evidence of reproductive toxicity or developmental toxicity.

STOT – single exposure Not classified

STOT – repeated exposure Not classified. NOAEL oral (rat) > 159 mg/kg bw/d.

Aspiration hazard Not classified

Other Information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Fish (Brachydanio rerio) LC50 (96 hour) 1108 mg/l Aquatic invertebrates: (Daphnia magna) EC50 (48 hour) 1700 mg/l
12.2 Persistence / Degradability	Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.
12.3 Bioaccumulative Potential	Inorganic. The substance has no potential for bioaccumulation.
12.4 Mobility In Soil	Not applicable.
12.5 Results of PBT and vPvB Assessment	Not classified as PBT and vPvB
12.6 Other Adverse Effects	The mild alkalinity of this material may have a local effect on ecosystems sensitive to changes in pH.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number	Not applicable. Not classified according to the United Nations under "Recommendations on the Transport of Dangerous Goods"
14.2 Proper Shipping Name	Not classified as hazardous under DOT or US Transportation Recommendations.
14.3 Transportation Hazard Class(es)	Not applicable.
14.4 Packing Group	Not applicable.
14.5 Environmental Hazards	Not classified as a Marine Pollutant.
14.6 Special Precautions For User	Not applicable.
14.7 Transport In Bulk According To Annex II of MARPOL 73/78 and The IBC Code	Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Regulations / Legislation Specific For The Substance or Mixture.	SARA TITLE III: Not an extremely Hazardous Substance under §313 Environmental Hazard Categories under §§ 311 / 312: Acute HMIS Rating 1,0,0
15.2 Chemical Safety Assessment	No listings under the HPVCs (High Production Volume Chemicals) and no listings under the LPVCs (Low Production Volume Chemicals), including EU Producers/Importers are found. No Classification and Labeling requirements such as Risk and Safety Phrases, Danger etc., and currently do not fall under - Priority Lists, Risk Assessment process and tracking system in relation to Council Regulation (EEC) 793/93. also known as Existing Substances Regulation (ESR) other than the information presented in this document.

SECTION 16: OTHER INFORMATION

Information contained in this publication or as otherwise supplied to users is believed to be accurate and given in good faith but it is for the User to satisfy themselves of the suitability of the product for their own particular purpose. The information provided in this SDS is from data accessed through research, Industry Consortium information, suppliers of the materials and government regulatory agencies.

This information is believed to be accurate and is the best information available to WAGNER ENVIRONMENTAL TECHNOLOGIES, LLC. This document is intended only as a guide to appropriate precautions for handling a chemical, by a person trained in chemical handling.

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