

**HAVILAND CONSUMER PRODUCTS, INC**  
**SAFETY DATA SHEET**



**Section 1: Identification**

Product Name: Proteam Gentle Spa    Product Code: c003951

Haviland Consumer Products, Inc.  
421 Ann Street NW  
Grand Rapids, MI 49504  
(616) 361-6691

**Emergency Phone**  
CHEMTREC (800) 424-9300  
CHEMTREC International (703) 527-3887

Product Use: NA  
Not recommended for: NA

**Section 2: Hazard(s) Identification**

**GHS Ratings:**

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Reproductive toxin	1B	Presumed, Based on experimental animals
Organ toxin single exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies, Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidan
Organ toxin repeated exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidanc

**GHS Hazards**

H315	Causes skin irritation
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure

**GHS Precautions**

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P314	Get Medical advice/attention if you feel unwell
P321	Specific treatment (see first aid treatment on SDS)

P362	Take off contaminated clothing and wash before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

**Danger**



**Section 3: Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Trade Secret 70 to 80%		6 mg/m <sup>3</sup> STEL (inhalable fraction, listed under Borate compounds, inorganic) 2 mg/m <sup>3</sup> TWA (inhalable fraction, listed under Borate compounds, inorganic)	
Trade Secret 20 to 30%		6 mg/m <sup>3</sup> STEL (inhalable fraction, listed under Borate compounds, inorganic) 2 mg/m <sup>3</sup> TWA (inhalable fraction, listed under Borate compounds, inorganic)	NIOSH: 1 mg/m <sup>3</sup> TWA

**Section 4: First-aid Measures**

**Inhalation**

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Eye Contact**

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally

lifting and lowering upper lids. Get medical attention promptly.

**Skin Contact**

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Section 5: Fire-fighting Measures**

LEL:

UEL:

**Extinguishing Media**

Use media suitable for the surrounding fires.

**Specific Hazards Arising from the Chemical**

None known

**Special Protective Equipment and Precautions for Firefighters**

**Special Information:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Vacuum, shovel or sweep up and place in containers for disposal. Avoid contamination of water bodies during cleanup and disposal.

**Section 7: Handling and Storage**

**HANDLING:** Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Ground and bond containers when transferring material. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

**STORAGE:** Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

**Section 8: Exposure Control/Personal Protection**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Trade Secret N/A		6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic) 2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	
Trade Secret N/A		6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic) 2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	NIOSH: 1 mg/m3 TWA

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors.

Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

#### Section 9: Physical and Chemical Properties

<b>Appearance:</b> white crystalline solid	<b>Odor:</b> Unknown
<b>Vapor Pressure:</b> Unknown	<b>Odor threshold:</b> Unknown
<b>Vapor Density:</b> Unknown	<b>pH:</b> 6.0-8.0 (1% Solution)
<b>Density:</b> Unknown	<b>Melting point:</b> Unknown
<b>Freezing point:</b> Unknown	<b>Solubility:</b> Negligible
<b>Boiling range:</b> Unknown	<b>Flash point:</b> Unknown
<b>Evaporation rate:</b> Unknown	<b>Flammability:</b> Unknown
<b>Explosive Limits:</b> Unknown	<b>Specific Gravity:</b> Unknown
<b>Autoignition temperature:</b> Unknown	<b>Decomposition temperature:</b> Unknown
<b>Viscosity:</b> Unknown	<b>Grams VOC less water:</b> Unknown

#### Section 10: Stability and Reactivity

**Chemical Stability:**

STABLE

**Incompatible Materials**

Reaction with strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas, which could create an explosive hazard.

**Conditions to Avoid**

None known

**Hazardous Decomposition Products**

None Known

**Hazardous Polymerization**

Hazardous polymerization will not occur.

#### Section 11: Toxicology Information

**Mixture Toxicity**

Oral Toxicity LD50: 2,627mg/kg

**Routes of Entry:**

Inhalation  
Ingestion  
Skin contact  
Eye contact

**Eyes            Skin            Respiratory System**

**Effects of Overexposure**

**Emergency Overview**

Little or no hazard to humans and has low acute oral and dermal toxicity.

**Acute Health Effects**

Occasional mild irritation effects to nose and throat may occur from inhalation of dust .

CAS NumberDescription% WeightCarcinogen Rating**Section 12: Ecological Information****Component Ecotoxicity**

Trade Secret

48 Hr EC50 Daphnia magna: 115 - 153 mg/L

**Section 13: Disposal Considerations**

Dispose of in accordance with local, state and federal regulations.

**Section 14: Transportation Informations**

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any .

**Section 15: Regulatory Information**CountryRegulationAll Components Listed**Section 16: Other Information**

Date Prepared: 7/23/2015

Reviewer Revision

**Disclaimer**

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained.

Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

**HAVILAND CONSUMER PRODUCTS, INC**  
**SAFETY DATA SHEET**



**Section 1: Identification**

Product Name: Proteam Spa Filter Cleaner    Product Code: c003950

Haviland Consumer Products, Inc.  
421 Ann Street NW  
Grand Rapids, MI 49504  
(616) 361-6691

**Emergency Phone**  
CHEMTREC (800) 424-9300  
CHEMTREC International (703) 527-3887

Product Use: NA  
Not recommended for: NA

**Section 2: Hazard(s) Identification**

**GHS Ratings:**

Corrosive to metals	1	Corrosive to metals
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Respiratory sensitizer	1	Respiratory sensitizer
Organ toxin single exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies, Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidan
Organ toxin repeated exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidanc
Aquatic toxicity	A1	Acute toxicity <= 1.00 mg/l

**GHS Hazards**

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

**GHS Precautions**

P234	Keep only in original container
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P285	In case of inadequate ventilation wear respiratory protection
P310	Immediately call a POISON CENTER or doctor/physician

P314	Get Medical advice/attention if you feel unwell
P321	Specific treatment (see first aid treatment on SDS)
P363	Wash contaminated clothing before reuse
P390	Absorb spillage to prevent material damage
P391	Collect spillage
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician
P342+P311	If experiencing respiratory symptoms call a POISON CENTER or doctor/physician
P405	Store locked up
P406	Store in a corrosive resistant container with a resistant inner liner
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

**Danger**



**Section 3: Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Phosphoric acid 7664-38-2 10 to 20%	1 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> STEL 1 mg/m <sup>3</sup> TWA	NIOSH: 1 mg/m <sup>3</sup> TWA 3 mg/m <sup>3</sup> STEL
Hydrogen chloride 7647-01-0 1 to 5%		2 ppm Ceiling	NIOSH: 5 ppm Ceiling; 7 mg/m <sup>3</sup> Ceiling
Trade Secret 1 to 5%			

**Section 4: First-aid Measures****Inhalation**

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Eye Contact**

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

**Skin Contact**

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Section 5: Fire-fighting Measures**

LEL:

UEL:

**Extinguishing Media**

Water spray, foam, carbon dioxide, dry chemical

**Specific Hazards Arising from the Chemical**

Reacts with most metals, especially when dilute: Hydrogen gas release (Extremely flammable, explosive).

**Special Protective Equipment and Precautions for Firefighters**

**Special Information:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures****Spill and Leak Procedures**

Wear appropriate personal protection including protective clothing and provide adequate ventilation during clean up. Collect spill with an absorbent material and place in a covered waste disposal container. Flush spill area with water.

**Section 7: Handling and Storage****Handling Procedures**

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

**STORAGE:** Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

**Section 8: Exposure Control/Personal Protection**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Phosphoric acid 7664-38-2	1 mg/m3 TWA	3 mg/m3 STEL 1 mg/m3 TWA	NIOSH: 1 mg/m3 TWA 3 mg/m3 STEL
Hydrogen chloride 7647-01-0		2 ppm Ceiling	NIOSH: 5 ppm Ceiling; 7 mg/m3 Ceiling
Trade Secret N/A			



**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

#### Section 9: Physical and Chemical Properties

<p><b>Appearance:</b> Clear, blue liquid</p> <p><b>Vapor Pressure:</b> Unknown</p> <p><b>Vapor Density:</b> Unknown</p> <p><b>Density:</b> Unknown</p> <p><b>Freezing point:</b> Unknown</p> <p><b>Boiling range:</b> Unknown</p> <p><b>Evaporation rate:</b> Unknown</p> <p><b>Explosive Limits:</b> Unknown</p> <p><b>Autoignition temperature:</b> Unknown</p> <p><b>Viscosity:</b> Unknown</p>	<p><b>Odor:</b> Unknown</p> <p><b>Odor threshold:</b> Unknown</p> <p><b>pH:</b> Unknown</p> <p><b>Melting point:</b> Unknown</p> <p><b>Solubility:</b> Complete</p> <p><b>Flash point:</b> Unknown</p> <p><b>Flammability:</b> Unknown</p> <p><b>Specific Gravity:</b> 1.13</p> <p><b>Decomposition temperature:</b> Unknown</p> <p><b>Grams VOC less water:</b> Unknown</p>
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#### Section 10: Stability and Reactivity

**Chemical Stability:**

STABLE

**Incompatible Materials**

This product may react with strong alkalis. Explosive hydrogen gas may be released if aqueous solutions of this material come into contact with reactive metals.

**Conditions to Avoid**

Excessive heat.

**Hazardous Decomposition Products**

Hydrogen gas, chlorine gas, hydrogen chloride gas. Toxic fumes of phosphorus pentoxide.

**Hazardous Polymerization**

Hazardous polymerization will not occur.

#### Section 11: Toxicology Information

**Mixture Toxicity**

Oral Toxicity LD50: 3,248mg/kg

Inhalation Toxicity LC50: 40mg/L

**Health Effects**

Corrosive to all body tissues with which it comes in contact. Inhalation of spray or mist may result in various degrees of irritation or damage to the respiratory tract tissues.

**Routes of Entry:**

Inhalation

Ingestion

Skin contact

Eye contact

**Target Organs**

**Eyes**

**Skin**

**Respiratory System**

## Effects of Overexposure

### Emergency Overview

Corrosive to eyes and skin. Harmful if swallowed. Inhalation may cause damage to the upper respiratory tract.

CAS Number

Description

% Weight

Carcinogen Rating

### Section 12: Ecological Information

### Component Ecotoxicity

#### Section 13: Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

#### Section 14: Transportation Informations

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any .

#### Section 15: Regulatory Information

### CERCLA/SARA Hazardous Substances

7647-01-0 Hydrogen chloride

7664-38-2 Phosphoric acid

### DEA List I and II Chemicals

7647-01-0 Hydrogen chloride

### OSHA Process Safety Management Highly Hazardous Chemicals

7647-01-0 Hydrogen chloride

### U.S. Clean Air Act Toxic and Flammable Substances

7647-01-0 Hydrogen chloride

### SARA 313

7647-01-0 Hydrogen chloride

Country

Regulation

All Components Listed

### Section 16: Other Information

Date Prepared: 7/23/2015

Reviewer Revision

### Disclaimer

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data

available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

**HAVILAND CONSUMER PRODUCTS, INC**  
**SAFETY DATA SHEET**



**Section 1: Identification**

Product Name: Proteam Spa Foam Fighter    Product Code: C003946

Haviland Consumer Products, Inc.  
421 Ann Street NW  
Grand Rapids, MI 49504  
(616) 361-6691

**Emergency Phone**  
CHEMTREC (800) 424-9300  
CHEMTREC International (703) 527-3887

Product Use: NA  
Not recommended for: NA

**Section 2: Hazard(s) Identification**

**GHS Ratings:**

**GHS Hazards**

**GHS Precautions**

There are no GHS ratings that apply to this product at this time.

**Section 3: Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits

**Section 4: First-aid Measures**

**Inhalation**

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Eye Contact**

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

**Skin Contact**

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Section 5: Fire-fighting Measures**

**Extinguishing Media**

This product is water based and will not ignite at its boiling point of 212°F. This product will ignite when exposed to an ignition source while at a temperature at or above its flash point.

**Specific Hazards Arising from the Chemical**

This product contains methyl-polysiloxane which can generate formaldehyde at approximately 300°F ( 150°C) and above in atmospheres that contain oxygen. Other decomposition products from thermal breakdown are aldehydes, ketones, carbon oxides, sulfur oxides, nitrogen oxides and silica.

**Special Protective Equipment and Precautions for Firefighters**

**Special Information:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

<b>Section 6: Accidental Release Measures</b>
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**Spill and Leak Procedures**

Remove spills promptly as they may make floors slippery. Several washes and/or the use of detergents may be necessary to completely clean any spill. Wear recommended protective equipment outlined in Section 8 of this document and provide adequate ventilation during clean-up

Spills should be contained, solidified with a absorbent, noncombustible material and placed in labeled containers for disposal. Material should be disposed of at a licensed facility.

<b>Section 7: Handling and Storage</b>
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**Handling Procedures**

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

**STORAGE:** Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

<b>Section 8: Exposure Control/Personal Protection</b>
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Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGIENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

<b>Section 9: Physical and Chemical Properties</b>
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<p style="text-align: center;"><b>Appearance:</b> White opaque liquid</p> <p><b>Vapor Pressure:</b> Unknown</p> <p><b>Vapor Density:</b> &lt; 1.0 mm Hg</p> <p style="padding-left: 40px;"><b>Density:</b> 1.002 g/ml</p> <p><b>Freezing point:</b> 32°F</p> <p><b>Boiling range:</b> 212°F</p> <p><b>Evaporation rate:</b> Unknown</p> <p><b>Explosive Limits:</b> Unknown</p> <p><b>Autoignition temperature:</b> Unknown</p>	<p style="text-align: center;"><b>Odor:</b> Mild odor</p> <p><b>Odor threshold:</b> Unknown</p> <p style="padding-left: 40px;"><b>pH:</b> 7.0 - 9.0 (neat)</p> <p><b>Melting point:</b> Unknown</p> <p><b>Solubility:</b> Dispersible in H2O</p> <p><b>Flash point:</b> &gt;100°C (&gt;212°F) Setaflash Closed Tester ASTM 03278</p> <p><b>Flammability:</b> Unknown</p> <p><b>Specific Gravity:</b> Unknown</p> <p><b>Decomposition temperature:</b> Unknown</p>
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**Viscosity:** 850 - 1450 c ps  
(Brookfield RVT) @  
25°C

**Grams VOC less water:** Unknown

**Section 10: Stability and Reactivity**

**Chemical Stability:**

STABLE

**Incompatible Materials**

Strong oxidizing materials and alkali based materials.

**Conditions to Avoid**

None

**Hazardous Decomposition Products**

Hazardous decomposition will not occur under normal conditions.

**Hazardous Polymerization**

Hazardous polymerization will not occur.

**Section 11: Toxicology Information**

**Mixture Toxicity**

**Routes of Entry:**

Inhalation

Ingestion

Skin contact

Eye contact

**Target Organs**

**Effects of Overexposure**

**Section 12: Ecological Information**

**Section 13: Disposal Considerations**

Dispose of in accordance with local, state and federal regulations.

**Section 14: Transportation Informations**

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any.

**Section 15: Regulatory Information**

**Country**

**Regulation**

**All Components Listed**

**Section 16: Other Information**

Date Prepared: 2/2/2016

**Disclaimer**

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**HAVILAND CONSUMER PRODUCTS, INC**  
**SAFETY DATA SHEET**



**Section 1: Identification**

Product Name: Proteam Spa Metal Magic    Product Code: c003945

Haviland Consumer Products, Inc.  
421 Ann Street NW  
Grand Rapids, MI 49504  
(616) 361-6691

**Emergency Phone**  
CHEMTREC (800) 424-9300  
CHEMTREC International (703) 527-3887

Product Use: NA  
Not recommended for: NA

**Section 2: Hazard(s) Identification**

**GHS Ratings:**

Corrosive to metals	1	Corrosive to metals
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity $\geq$ 3, Iritis $>$ 1.5
Organ toxin single exposure	2	Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance) - Human evidence in exceptional cases
Aquatic toxicity	C3	Acute toxicity $>$ 10.0 but $\leq$ 100.0 mg/l and lack of rapid degradability and log Kow $\geq$ 4 unless BCF $<$ 500 and unless chronic toxicity $>$ 1 mg/l

**GHS Hazards**

H290	May be corrosive to metals
H318	Causes serious eye damage
H371	May cause damage to organs
H412	Harmful to aquatic life with long lasting effects

**GHS Precautions**

P234	Keep only in original container
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P390	Absorb spillage to prevent material damage
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P309+P311	IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
P405	Store locked up
P406	Store in a corrosive resistant container with a resistant inner liner



**Danger****Section 3: Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4 10 to 20%			

**Section 4: First-aid Measures****Inhalation**

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Eye Contact**

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

**Skin Contact**

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Section 5: Fire-fighting Measures**

LEL:

UEL:

**Extinguishing Media**

Water spray, foam, carbon dioxide, dry chemical

**Specific Hazards Arising from the Chemical**

Unknown

**Special Protective Equipment and Precautions for Firefighters**

**Special Information:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures****Spill and Leak Procedures**

Block any potential routes to water systems. Recover as much of the pure product as possible into appropriate containers. Use absorbent to collect spill or leak residue. Follow all local, state and federal regulations.

**Section 7: Handling and Storage**

**HANDLING:** Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Ground and bond containers when transferring material. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

**STORAGE:** Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

**Section 8: Exposure Control/Personal Protection**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
1-Hydroxyethane-1,1-diphosphonic acid 2809-21-4			

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGIENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

**Section 9: Physical and Chemical Properties**

<p><b>Boiling range:</b> &gt; 100°C (&gt; 212°F)</p> <p><b>Evaporation rate:</b> Unknown</p> <p><b>Explosive Limits:</b> Unknown</p> <p><b>Autoignition temperature:</b> Unknown</p> <p><b>Viscosity:</b> Unknown</p> <p><b>Appearance:</b> Clear, colorless to pale yellow liquid</p> <p><b>Vapor Pressure:</b> 17 mmHg @ 20°C (68°F)</p> <p><b>Vapor Density:</b> Unknown</p> <p><b>Density:</b> Unknown</p> <p><b>Freezing point:</b> Unknown</p>	<p><b>Flash point:</b> Unknown</p> <p><b>Flammability:</b> Unknown</p> <p><b>Specific Gravity:</b> Unknown</p> <p><b>Decomposition temperature:</b> Unknown</p> <p><b>Grams VOC less water:</b> Unknown</p> <p><b>Odor:</b> Mild, vinegar-like odor</p> <p><b>Odor threshold:</b> Unknown</p> <p><b>pH:</b> &lt; 2 (1% Solution)</p> <p><b>Melting point:</b> Unknown</p> <p><b>Solubility:</b> Complete</p>
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**Section 10: Stability and Reactivity****Chemical Stability:**

STABLE

**Incompatible Materials**

This product may react with strong alkalis and strong oxidizing agents.

**Conditions to Avoid**

Unknown

**Hazardous Decomposition Products**

Oxides of phosphorus and carbon, acids of phosphorus

Hazardous polymerization will not occur.

**Section 11: Toxicology Information**

**Mixture Toxicity**

**Routes of Entry:**

- Inhalation
- Ingestion
- Skin contact
- Eye contact

**Effects of Overexposure**

**Emergency Overview**

Avoid inhalation of mists or vapors. Corrosive to eyes, irritating to skin and respiratory system.

**Acute Health Effects**

Eye or skin contact may cause mild to severe irritation. Inhalation may cause irritation or corrosion of mucous membranes and the lungs.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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**Section 12: Ecological Information**

**Component Ecotoxicity**

1-Hydroxyethane-1,1-diphosphonic acid	96 Hr LC50 Lepomis macrochirus: 868 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 360 mg/L [static] 48 Hr EC50 Daphnia magna: 527 mg/L
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**Section 13: Disposal Considerations**

Dispose of in accordance with local, state and federal regulations.

**Section 14: Transportation Informations**

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any .

**Section 15: Regulatory Information**

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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**Section 16: Other Information**

**Disclaimer**

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

**HAVILAND CONSUMER PRODUCTS, INC**  
**SAFETY DATA SHEET**



**Section 1: Identification**

Product Name: Proteam Spa pH Decreaser (Dry) Product Code: c003942

Haviland Consumer Products, Inc.  
421 Ann Street NW  
Grand Rapids, MI 49504  
(616) 361-6691

**Emergency Phone**  
CHEMTREC (800) 424-9300  
CHEMTREC International (703) 527-3887

Product Use: NA  
Not recommended for: NA

**Section 2: Hazard(s) Identification**

**GHS Ratings:**

Skin corrosive	1C
Eye corrosive	1

Destruction of dermal tissue: Exposure < 4 hours  
Observation < 14 days, visible necrosis in at least one animal  
Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

**GHS Hazards**

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

**GHS Precautions**

P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see first aid treatment on SDS)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P405	Store locked up
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

**Danger**



**Section 3: Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Trade Secret 80 to 90%			

**Section 4: First-aid Measures**

**Inhalation**

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Eye Contact**

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

**Skin Contact**

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Section 5: Fire-fighting Measures**

LEL:

UEL:

**Extinguishing Media**

For fires in area use appropriate media. For example: Water spray. Dry chemical. Carbon dioxide. Foam.

**Specific Hazards Arising from the Chemical**

**Fire and Explosion Hazards:** Toxic fumes, gases or vapors may evolve on burning.

**Hazardous Combustion Products:** Toxic vapors. Sulfur oxides. Sulfur dioxide. Metal oxides. Sodium sulfide may be formed after dried solution residues are heated. This is an explosive hazard and strongly alkaline in contact with water.

**Special Protective Equipment and Precautions for Firefighters**

**Special Information:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

**Spill Clean-Up Procedures:** CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Eliminate all sources of ignition. Shut off source of leak if safe to do so. Contain spill, place into drums for proper disposal. Neutralize with an alkali (sodium carbonate, lime, etc.) Sulfur dioxide and carbon dioxide may be released during neutralization. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

**Section 7: Handling and Storage**

**HANDLING:** Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Ground and bond containers when transferring material. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

**STORAGE:** Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

**Section 8: Exposure Control/Personal Protection**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Trade Secret N/A			

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

**Section 9: Physical and Chemical Properties**

<p><b>Appearance:</b> Off-white granular material</p> <p><b>Vapor Pressure:</b> Unknown</p> <p><b>Vapor Density:</b> Unknown</p> <p><b>Density:</b> Unknown</p> <p><b>Freezing point:</b> Unknown</p> <p><b>Boiling range:</b> Unknown</p> <p><b>Evaporation rate:</b> Unknown</p> <p><b>Explosive Limits:</b> Unknown</p> <p><b>Autoignition temperature:</b> Unknown</p> <p><b>Viscosity:</b> Unknown</p>	<p><b>Odor:</b> Fresh to pungent odor</p> <p><b>Odor threshold:</b> Unknown</p> <p><b>pH:</b> &lt; 1 (5% solution)</p> <p><b>Melting point:</b> 350°F (177°C)</p> <p><b>Solubility:</b> 1080 g/l @ 68°F (20°C)</p> <p><b>Flash point:</b> Unknown</p> <p><b>Flammability:</b> Unknown</p> <p><b>Specific Gravity:</b> Unknown</p> <p><b>Decomposition temperature:</b> Unknown</p> <p><b>Grams VOC less water:</b> Unknown</p>
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**Section 10: Stability and Reactivity****Chemical Stability:**

STABLE

**Incompatible Materials**

Acids. Mineral acids. Oxidizing agents. Corrosive to some metals.

**Conditions to Avoid**

Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Avoid other ignition sources. Temperatures at or near boiling point causes evolution of Sulfur dioxide. Avoid excess exposure to air. On exposure to air, the product will lose some Sulfur dioxide and gradually oxidize to sulfate.

**Hazardous Decomposition Products**

Sulfur dioxide gas. Sulfur oxides. Toxic vapors.

**Hazardous Polymerization**

Hazardous polymerization will not occur.

**Section 11: Toxicology Information**

**Mixture Toxicity**

Oral Toxicity LD50: 2,490mg/kg

**Routes of Entry:**

- Inhalation
- Ingestion
- Skin contact
- Eye contact

**Effects of Overexposure**

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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**Section 12: Ecological Information**

**Component Ecotoxicity**

Trade Secret

48 Hr EC50 Daphnia magna: 190 mg/L

**Section 13: Disposal Considerations**

Dispose of in accordance with local, state and federal regulations.

**Section 14: Transportation Informations**

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any.

**Section 15: Regulatory Information**

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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**Section 16: Other Information**



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**HAVILAND CONSUMER PRODUCTS, INC**  
**SAFETY DATA SHEET**



**Section 1: Identification**

Product Name: Proteam Spa pH Increaser (Dry) Product Code: c003941

Haviland Consumer Products, Inc.  
421 Ann Street NW  
Grand Rapids, MI 49504  
(616) 361-6691

**Emergency Phone**  
CHEMTREC (800) 424-9300  
CHEMTREC International (703) 527-3887

Product Use: NA  
Not recommended for: NA

**Section 2: Hazard(s) Identification**

**GHS Ratings:**

Eye corrosive

2A

Eye irritant: Subcategory 2A, Reversible in 21 days

**GHS Hazards**

H319 Causes serious eye irritation

**GHS Precautions**

P264 Wash face, hands, and any exposed skin thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P337+P313 If eye irritation persists get medical advice/attention

**Warning**



**Section 3: Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Disodium carbonate 497-19-8 90 to 100%			

**Section 4: First-aid Measures**

**Inhalation**

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Eye Contact**

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

**Skin Contact**

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

<b>Section 5: Fire-fighting Measures</b>
--

LEL:

UEL:

**Extinguishing Media**

Water, water fog, CO2, dry chemical

**Specific Hazards Arising from the Chemical****Hazardous combustion products:**

Fumes of Sodium Oxide

**Special Protective Equipment and Precautions for Firefighters**

**Special Information:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

<b>Section 6: Accidental Release Measures</b>
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**Personal precautions**

Avoid dust formation. Sweep up to prevent slipping hazard.

**Methods for containment**

Prevent large quantities of this product from contacting vegetation or waterways. Cover with plastic sheet to prevent spreading Pick up and transfer to properly labeled containers Keep in suitable and closed containers for disposal

**Methods for cleaning up**

Sweep or vacuum up spillage and return to container. Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

<b>Section 7: Handling and Storage</b>
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**HANDLING:** Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Ground and bond containers when transferring material. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

**STORAGE:** Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

<b>Section 8: Exposure Control/Personal Protection</b>
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Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Disodium carbonate 497-19-8			

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors.

Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

#### Section 9: Physical and Chemical Properties

<b>Freezing point:</b> Unknown	<b>Solubility:</b> 33.2% Maximum
<b>Boiling range:</b> Decomposes	<b>Flash point:</b> Unknown
<b>Evaporation rate:</b> Unknown	<b>Flammability:</b> Unknown
<b>Explosive Limits:</b> Unknown	<b>Specific Gravity:</b> Unknown
<b>Autoignition temperature:</b> Unknown	<b>Decomposition temperature:</b> Unknown
<b>Viscosity:</b> Unknown	<b>Grams VOC less water:</b> Unknown
<b>Appearance:</b> White granular	<b>Odor:</b> odorless
<b>Vapor Pressure:</b> Unknown	<b>Odor threshold:</b> Unknown
<b>Vapor Density:</b> Unknown	<b>pH:</b> 11.4 (1% solution)
<b>Density:</b> Unknown	<b>Melting point:</b> 851°C

#### Section 10: Stability and Reactivity

**Chemical Stability:**

STABLE

**Incompatible Materials**

Aluminum powder, acids, fluorine, molten lithium

**Conditions to Avoid**

Unknown

**Hazardous Decomposition Products**

Heated to decomposition, it emits fumes of sodium oxide.

**Hazardous Polymerization**

Hazardous polymerization will not occur.

#### Section 11: Toxicology Information

**Mixture Toxicity**

Oral Toxicity LD50: 4,090mg/kg

Dermal Toxicity LD50: 2,210mg/kg

Inhalation Toxicity LC50: 2mg/L

**Routes of Entry:**

Inhalation

Ingestion

Skin contact

Eye contact

**Effects of Overexposure**

**Emergency Overview**

Harmful if swallowed. May cause skin and eye irritation.

**Acute Health Effects**

Contact with eyes or skin may result in irritation. Ingestion may result in gastric disturbances.

Inhalation may irritate the respiratory tract.

CAS NumberDescription% WeightCarcinogen Rating**Section 12: Ecological Information****Component Ecotoxicity**

Disodium carbonate

96 Hr LC50 *Lepomis macrochirus*: 300 mg/L [static]; 96 Hr LC50 *Pimephales promelas*: 310 - 1220 mg/L [static]  
48 Hr EC50 *Daphnia magna*: 265 mg/L

**Section 13: Disposal Considerations**

Dispose of in accordance with local, state and federal regulations.

**Section 14: Transportation Informations**

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any.

**Section 15: Regulatory Information**CountryRegulationAll Components Listed**Section 16: Other Information**

Date Prepared: 7/23/2015

Reviewer Revision

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Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.



**HAVILAND CONSUMER PRODUCTS, INC**  
**SAFETY DATA SHEET**



**Section 1: Identification**

Product Name: Proteam Spa Sky Blue Clarifier    Product Code: c003947

Haviland Consumer Products, Inc.  
421 Ann Street NW  
Grand Rapids, MI 49504  
(616) 361-6691

**Emergency Phone**  
CHEMTREC (800) 424-9300  
CHEMTREC International (703) 527-3887

Product Use: NA  
Not recommended for: NA

**Section 2: Hazard(s) Identification**

**GHS Ratings:**

**GHS Hazards**

**GHS Precautions**

There are no GHS ratings that apply to this product at this time.

**Section 3: Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits

**Section 4: First-aid Measures**

**Inhalation**

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Eye Contact**

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

**Skin Contact**

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Section 5: Fire-fighting Measures**

LEL:

UEL:

**Extinguishing Media**

Water spray, foam, carbon dioxide, dry chemical

**Specific Hazards Arising from the Chemical**

None known

**Special Protective Equipment and Precautions for Firefighters**

**Special Information:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

**Spill and Leak Procedures**

Block any potential routes to water systems. Recover as much of the pure product as possible into appropriate containers. Use absorbent to collect spill or leak residue. Follow all local, state and federal regulations.

**Section 7: Handling and Storage**

**Handling Procedures**

Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**STORAGE:** Keep container closed when not in use. Store in a cool, dry place. Store away from incompatible materials.

**Section 8: Exposure Control/Personal Protection**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

**Section 9: Physical and Chemical Properties**

<b>Appearance:</b> Clear blue liquid	<b>Odor:</b> Slight odor
<b>Vapor Pressure:</b> Unknown	<b>Odor threshold:</b> Unknown
<b>Vapor Density:</b> Unknown	<b>pH:</b> Unknown
<b>Density:</b> Unknown	<b>Melting point:</b> Unknown
<b>Freezing point:</b> Unknown	<b>Solubility:</b> Complete
<b>Boiling range:</b> 212°F	<b>Flash point:</b> Unknown
<b>Evaporation rate:</b> Unknown	<b>Flammability:</b> Unknown
<b>Explosive Limits:</b> Unknown	<b>Specific Gravity:</b> 1.01
<b>Autoignition temperature:</b> Unknown	<b>Decomposition temperature:</b> Unknown
<b>Viscosity:</b> Unknown	<b>Grams VOC less water:</b> Unknown



**Section 10: Stability and Reactivity**

**Chemical Stability:**

STABLE

**Incompatible Materials**

Strong oxidizing agents.

**Conditions to Avoid**

None known

**Hazardous Decomposition Products**

None known

**Hazardous Polymerization**

Hazardous polymerization will not occur.

**Section 11: Toxicology Information**

**Mixture Toxicity**

**Routes of Entry:**

Inhalation

Ingestion

Skin contact

Eye contact

**Target Organs**

**Effects of Overexposure**

**Emergency Overview**

May cause irritation but expected to be non-hazardous

**Health Effects**

May cause irritation to the eyes, skin, nose, and throat.

**Section 12: Ecological Information**

**Section 13: Disposal Considerations**

Dispose of in accordance with local, state and federal regulations.

**Section 14: Transportation Informations**

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any.

**Section 15: Regulatory Information**

Country

Regulation

All Components Listed

**Section 16: Other Information**

**Disclaimer**

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.