

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



**Section 1: Identification**

Product Name: Non-chlorine Oxidizing Shock

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:**

Oxidizing solid	2	Oxidizing solid class 2
Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Skin corrosive	1C	Destruction of dermal tissue: Exposure < 4 hours Observation < 14 days, 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
Skin sensitizer	1	Skin sensitizer
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 (guidanc
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	A3	Acute toxicity <= 10.0 but < 100 mg/l

**GHS Hazards**

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H360	May damage fertility or the unborn child
H370	Causes damage to organs

**GHS Precautions**

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P220	Keep/Store away from clothing and other combustible materials
P221	Take any precaution to avoid mixing with combustibles
P260	Do not breathe dust/fume/gas/mist/vapors/spray

H372 Causes damage to organs through prolonged or repeated exposure  
 H402 Harmful to aquatic life

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  
 P272 Contaminated work clothing should not be allowed out of the workplace  
 P273 Avoid release to the environment  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P281 Use personal protective equipment as required  
 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)  
 P330 Rinse mouth  
 P363 Wash contaminated clothing before reuse  
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
 P302+P352 IF ON SKIN: Wash with soap and water  
 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  
 P308+P313 IF exposed or concerned: Get medical advice/attention  
 P333+P313 If skin irritation or a rash occurs: Get medical advice/attention  
 P342+P311 If experiencing respiratory symptoms call a POISON CENTER or doctor/physician  
 P370+P378 In case of fire: Use suitable media for extinction  
 P405 Store locked up

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

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Potassium peroxymonosulfate sulfate (K5H3(SO3(O2))2(SO4)2) 70693-62-8 70 to 80%			
Boric acid (H3BO3) 10043-35-3 10 to 20%		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 1 to 5%			
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**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 water only. Do not use dry chemicals, carbon dioxide, or foam.

**Specific Hazards Arising from the Chemical**

Grinding or intensive mixing may cause decomposition with liberation of heat and oxygen; ignition of oxidizable material if present may occur.

**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**

Use appropriate personal protective equipment during clean-up. Sweep up solid. Flush liquid spills with low pressure 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 s

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

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Boric acid (H3BO3) 10043-35-3		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			
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.

**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**

<b>Appearance:</b> White granules or powder	<b>Odor:</b> Odorless
<b>Vapor Pressure:</b> Unknown	<b>Odor threshold:</b> Unknown
<b>Vapor Density:</b> Unknown	<b>pH:</b> 1.5 - 2.2 (5% solution)

<b>Density:</b> Unknown <b>Freezing point:</b> Unknown <b>Boiling range:</b> Decomposes <b>Evaporation rate:</b> Unknown <b>Explosive Limits:</b> Unknown <b>Autoignition temperature:</b> Unknown <b>Viscosity:</b> Unknown	<b>Melting point:</b> Decomposes <b>Solubility:</b> 21% @ 20°C (68°F) <b>Flash point:</b> Unknown <b>Flammability:</b> Unknown <b>Specific Gravity:</b> Unknown <b>Decomposition temperature:</b> Unknown <b>Grams VOC less water:</b> Unknown
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<b>Section 10: Stability and Reactivity</b>
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**Chemical Stability:**

STABLE

**Incompatible Materials**

Mixing with compounds containing halides or active halogens (bromine, chlorine, iodine) can cause the release of the respective halogen gas, if moisture is present. Mixing with dry or concentrated chlorine-containing chemicals, such as hypochlorites, dichlor, trichlor, or salt, may cause the release of chlorine gas. Mixing with cyanides can cause release of hydrogen cyanide gas. Mixing with heavy metal salts can cause decomposition with release of oxygen and heat.

**Conditions to Avoid**

Excessive heat.

**Hazardous Decomposition Products**

Decomposes when heated or dampened, releasing oxygen and heat of decomposition.

**Hazardous Polymerization**

Hazardous polymerization will not occur.

<b>Section 11: Toxicology Information</b>
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**Mixture Toxicity**

Oral Toxicity LD50: 1,370mg/kg

**Component Toxicity**

**Routes of Entry:**

- Inhalation
- Ingestion
- Skin contact
- Eye contact

**Target Organs**

**Effects of Overexposure**

**Emergency Overview**

Material is corrosive to skin and eyes, and a nose and throat irritant. May cause allergic skin reactions in sensitive individuals. Ingestion may cause inflammation and damage to the lining of the stomach, resulting in bleeding.

**Health Effects**

Skin contact with moisture or perspiration may cause skin burns or ulceration; temporary body hair loss may occur in contacted areas. Eye contact may cause eye corrosion or ulceration. Inhalation may cause nose bleeds and irritation of the upper respiratory passages with coughing and discomfort. Ingestion may cause gastritis possibly progressing to necrosis or hemorrhage.

CAS Number

Description

% Weight

Carcinogen Rating

**Section 12: Ecological Information**

**Component Ecotoxicity**

Potassium peroxymonosulfate sulfate (K5H3(SO3(O2))2(SO4)2) 96 Hr LC50 Brachydanio rerio: >32 mg/L [semi-static]

Boric acid (H3BO3) 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**

**TSCA 8(b) Inventory**

Trade Secret

Trade Secret

10043-35-3 Boric acid (H3BO3)

70693-62-8 Potassium peroxymonosulfate sulfate (K5H3(SO3(O2))2(SO4)2)

Country

Regulation

All Components Listed

**Section 16: Other Information**

Date Prepared: 6/3/2015

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.