

HAVILAND CONSUMER PRODUCTS, INC
SAFETY DATA SHEET



Section 1: Identification

Product Name: Ideal Hardness Increaser Product Code: C002712

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:

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation
Organ toxin repeated 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

GHS Hazards

H302	Harmful if swallowed
H318	Causes serious eye damage
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure

GHS Precautions

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
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P314	Get Medical advice/attention if you feel unwell
P330	Rinse mouth
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

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
P403+P233	Store in a well ventilated place. Keep container tightly closed
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%			
Potassium chloride 7447-40-7 1 to 5%			
Trade Secret 1 to 5%			

Section 4: First-aid Measures

Inhalation

Fresh air should alleviate any respiratory discomfort. If breathing difficulties develop or persist, get medical attention.

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If effects occur, consult a physician, preferably an ophthalmologist. May cause injury due to mechanical action.

Skin Contact

Flush with water for at least 15 minutes while removing contaminated clothing. If irritation persists, get medical attention.

Ingestion

If swallowed, do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Never give anything by mouth to an unconscious or convulsive person.

Section 5: Fire-fighting Measures

LEL:

UEL:

Extinguishing Media

Use media suitable for the surrounding fires.

Specific Hazards Arising from the Chemical

The product itself does not burn. When calcium chloride is being dissolved in water, large amounts of heat develop.

Special Protective Equipment and Precautions for Firefighters

Keep unnecessary people away, isolate hazard area and deny entry. This material does not burn. Fight fire for other material that is burning. Water should be applied in large quantities as fine spray. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Wear protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations.

Section 6: Accidental Release Measures

Wear appropriate protective equipment and clothing during clean up. Sweep spill and transfer material into appropriate container(s) for disposal.

Section 7: Handling and Storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80°F, 27°C). Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep container tightly closed when not in use.

Conditions for safe storage, including any incompatibilities

Keep container closed. Store in a dry place. Protect from atmospheric moisture.

Section 8: Exposure Control/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Trade Secret N/A			
Potassium chloride 7447-40-7			
Trade Secret N/A			

Engineering Controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Eye Protection

Wear safety glasses with side-shields. For dusty operations or when handling solutions of the material, wear chemical goggles.

Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA particulate respirator must be provided.

Skin and Body Protection

Wear chemical resistant gloves, footwear, and protective clothing appropriate for the risk exposure.

Section 9: Physical and Chemical Properties

Density: Unknown	Melting point: 174°C (345°F)
Freezing point: Unknown	Solubility: Readily soluble
Boiling range: Unknown	Flash point: Unknown
Evaporation rate: Unknown	Flammability: Unknown

Explosive Limits: Unknown Autoignition temperature: Unknown Viscosity: Unknown Appearance: White flakes Vapor Pressure: 1.0 mmHg @ 25°C Vapor Density: Unknown	Specific Gravity Unknown Decomposition temperature: Unknown Grams VOC less water: Unknown Odor: Odorless Odor threshold: Unknown pH: Unknown
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Section 10: Stability and Reactivity

Stability

STABLE

Incompatible Materials

Heat is generated when mixed with water. Spattering and boiling can occur. Avoid contact with: Sulfuric acid. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as: Zinc. Sodium. Reaction of bromide impurity with oxidizing materials may generate trace levels of impurities such as bromate.

Conditions to Avoid

Avoid conditions of moisture.

Hazardous Decomposition Products

Does not decompose

Hazardous polymerization will not occur.

Section 11: Toxicology Information

Mixture Toxicity

Oral Toxicity LD50: 1,155mg/kg
Dermal Toxicity LD50: 3,094mg/kg

Routes of Entry

Effects of Overexposure

Acute Toxicity

Inhalation: Dust may cause irritation to upper respiratory tract (nose and throat).
Skin contact: Brief contact is essentially nonirritating to skin. Prolonged contact may cause skin irritation, even a burn. Not classified as corrosive to the skin according to DOT guidelines . May cause more severe response if skin is damp. May cause more severe response if skin is abraded (scratched or cut). May cause more severe response on covered skin (under clothing, gloves).
Eye contact: For solid: May cause slight eye irritation, mechanical injury only. Dust formation should be avoided, as dust can cause severe eye irritation with corneal injury.
Ingestion: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury . Swallowing may result in gastrointestinal irritation or ulceration.

Chronic Effects

For the minor component(s): Potassium chloride - In animals, effects have been reported on the following organs after ingestion: Gastrointestinal tract, Heart, and Kidney. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. Medical experience with sodium chloride has shown a strong association between elevated blood pressure and prolonged dietary overuse. Related effects could occur in the kidneys.

Carcinogenicity

This product is not classified as a carcinogen by NTP, IARC or OSHA.

Section 12: Ecological Information

Component Ecotoxicity

Trade Secret	96 Hr LC50 Lepomis macrochirus: 10650 mg/L [static] 48 Hr LC50 Daphnia magna: 2400 mg/L
Potassium chloride	96 Hr LC50 Lepomis macrochirus: 1060 mg/L [static]; 96 Hr LC50 Pimephales promelas: 750 - 1020 mg/L [static] 48 Hr EC50 Daphnia magna: 825 mg/L; 48 Hr EC50 Daphnia magna: 83 mg/L [Static] 72 Hr EC50 Desmodesmus subspicatus: 2500 mg/L
Trade Secret	96 Hr LC50 Lepomis macrochirus: 5560 - 6080 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 12946 mg/L [static]; 96 Hr LC50 Pimephales promelas: 6020 - 7070 mg/L [static]; 96 Hr LC50 Pimephales promelas: 7050 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 6420 - 6700 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4747 - 7824 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 1000 mg/L; 48 Hr EC50 Daphnia magna: 340.7 - 469.2 mg/L [Static]

Section 13: Disposal Considerations

Dispose of in accordance with all Federal, State and local 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

Date Prepared: 7/21/2015

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.