HAVILAND PRODUCTS COMPANY
SAFETY DATA SHEET

Section 1: Identification

Product Name: Cleaner SSP-140 Product Code:H000759

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

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

Product Use: No data available
Not recommended for: No data available

Section 2: Hazard(s) Identification

GHS Ratings:

Corrosive to metals	1	Corrosive to metals
Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
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
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Reproductive toxin	1A	Based on human evidence
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	A2	Acute toxicity > 1.00 but <= 10.0 mg/l

GHS Hazards

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H340	May cause genetic defects
H360	May damage fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P234	Keep only in original container
P260	Do not breathe dust/fume/gas/mist/vapors/spray

H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H401	Toxic 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
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
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
P321	Specific treatment (see first aid treatment on SDS)
P363	Wash contaminated clothing before reuse
P390	Absorb spillage to prevent material damage
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
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician
P308+P313	IF exposed or concerned: Get medical advice/attention
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
Sodium hydroxide 1310-73-2 30 to 40%	2 mg/m3 TWA	2 mg/m3 Ceiling	NIOSH: 2 mg/m3 Ceiling
Sodium metasilicate 6834-92-0 20 to 30%			
Trade Secret 10 to 20%			
Trade Secret 5 to 10%			
Trade Secret 5 to 10%			
Trade Secret 1 to 5%			
Trade Secret 0.1 to 1.0%			
Trade Secret 0.1 to 1.0%	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

Section 4: First-aid Measures

Inhalation

Move to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

Eye Contact

In case of eye contact, rinse with plenty of water for at least 15 minutes and seek medical attention immediately.

Skin Contact

Immediately flush with plenty of water for at least 15 minutes followed by vinegar or 3% acetic acid. Get medical attention immediately. Wash contaminated clothes before reuse.

Ingestion

Do Not Induce Vomiting! Give large quantities of water or milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5: Fire-fighting Measures

LEL: UEL:

Extinguishing Media

Product is not flammable. Use appropriate media for adjacent fire.

Specific Hazards Arising from the Chemical

In water solution will react amphoteric with metals such as aluminum to generate hydrogen, which is flammable and/or explosive if ignited. (See also Stability and Reactivity section).

Special Protective Equipment and Precautions for Firefighters

Wear NIOSH approved self-contained breathing apparatus (SCBA) with a full face piece operated in the positive pressure mode and full protective clothing, including eye protection and boots.

Section 6: Accidental Release Measures

Put on appropriate personal protective equipment (see Section 8). Remove and reclaim as much as possible (shovel up). Neutralize remaining traces with dilute acid, flush with water.

Section 7: Handling and Storage

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Do not breathe dusts. Do not get in eyes or on skin or clothing. Wash thoroughly after using. Protect against moisture and water. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

Section 8: Exposure Control/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Sodium hydroxide 1310-73-2	2 mg/m3 TWA	2 mg/m3 Ceiling	NIOSH: 2 mg/m3 Ceiling
Sodium metasilicate 6834-92-0			
Trade Secret N/A			
Trade Secret N/A			
Trade Secret N/A			
Trade Secret N/A			
Trade Secret N/A			
Trade Secret N/A	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

Engineering Controls

Use only with adequate ventilation to keep dusts below limits.

Eye Protection

Wear chemical goggles and face shield.

Respiratory Protection

If workers are exposed to concentrations above the exposure limit, use NIOSH approved respirator for dusts and mists.

Skin Protection

Wear chemical-resistant, impervious gloves to prevent contact with the skin. Wear protective gear as needed - apron, suit, boots.

Other Protective Equipment

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Section 9: Physical and Chemical Properties

Flammability: Unknown	**Explosive Limits:** Unknown
Specific Gravity Unknown	**Autoignition temperature:** Unknown
Decomposition temperature: Unknown	**Viscosity:** Unknown
Grams VOC less water: Unknown	**Appearance:** Brown and white powder
Odor: Detergent odor	**Vapor Pressure:** Unknown
Odor threshold: Unknown	**Vapor Density:** Unknown
pH: Unknown	**Density:** Unknown
Melting point: Unknown	**Freezing point:** Unknown
Solubility: Unknown	**Boiling range:** Unknown
Flash point: Unknown	**Evaporation rate:** Unknown

Section 10: Stability and Reactivity

Chemical Stability

STABLE

Conditions to Avoid

Protect against moisture and water.

Incompatibile Materials

All acids, copper, magnesium, aluminum, tin, zinc, (galvanized), leather, wood, strong oxidizers.

Hazardous Decomposition Products

None currently known.

Hazardous polymerization will not occur.

Section 11: Toxicology Information

Mixture Toxicity

Oral Toxicity LD50: 2,032mg/kg
Dermal Toxicity LD50: 2,875mg/kg
Inhalation Toxicity LC50: 17mg/L

Component Toxicity

1310-73-2 Sodium hydroxide
Dermal LD50: 1,350 mg/kg (Rabbit)

Blood **Eyes** **Liver** **Central Nervous System** **Reproductive System** **Skin** **Respiratory System**

Effects of Overexposure

Acute Toxicity

Eye burns can result in permanent damage and or loss of vision. Skin burns may result in deep ulceration with subsequent scarring. Inhalation can product chemical pneumonia. Ingestion may result in burns to mouth, throat, esophagus, and stomach.

Carcinogenicity

CAS Number	Description	% Weight	Carcinogen Rating
64-17-5	Trade Secret	0.1 to 1.0%	Trade Secret: IARC: Human carcinogen OSHA: listed

Section 12: Ecological Information

Component Ecotoxicity

Sodium hydroxide	96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]
Sodium metasilicate	96 Hr LC50 Brachydanio rerio: 210 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 210 mg/L
Trade Secret	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
Trade Secret	96 Hr LC50 Oncorhynchus mykiss: >100 mg/L 48 Hr EC50 water flea: >100 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]
Trade Secret	96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]

Section 13: Disposal Considerations

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

Section 14: Transportation Information

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

1310-73-2 Sodium hydroxide

TSCA 8(b) Inventory

Trade Secret
Trade Secret
Trade Secret
Trade Secret
Trade Secret
Trade Secret
6834-92-0 Sodium metasilicate
1310-73-2 Sodium hydroxide

Country	Regulation	All Components Listed

Section 16: Other Information

Date Prepared: 6/4/2015

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.