

Safety Data Sheet

Diamond Seal Hardener

Complies with OSHA Hazard Communication
Standard 29 CFR 1910.1200



www.specco.com

SECTION 1. Identification

1.1 Product Identifier:

Product Name: Diamond Seal Hardener
Product Code: Formulation JB-157

1.2 Uses of the product:

Sealer & Hardener for Polished Concrete

1.3 Details of the product manufacturer:

Supplied By: Specco Industries Inc.
601 N. 5th Ave.
Kankakee, Illinois 60901
(630)-257-5060
e-Mail: Info@specco.com
www.specco.com

1.4 Emergency Telephone Number:

24 Hour Emergency:
INFOTRAC: 1-800-535-5053

Outside U.S. and Canada
Infotrac: 352-323-3500

Note: INFOTRAC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

SECTION 2. Hazard(s) Identification

2.1* EMERGENCY OVERVIEW**** * OSHA Hazards: Causes serious eye and skin irritation. May be harmful if swallowed

2.2 Classification of the substance or mixture:

GHS-US Classification

Eye irritation-Category 2A
Skin Irritation-Category 2

2.3 Label elements:



Symbol(s) of Product GHS-US labeling:

Hazard pictograms (GHS-US):

Signal Word:

WARNING

2.3 Label Elements:

GHS –US HAZARD STATEMENTS:

Aspiration hazard, category 2	H303	May be harmful if swallowed
Skin Irritation, category 2	H315	My cause skin irritation
Eye Irritation, category 2	H319	May cause eye irritation

GHS –US PRECAUTIONARY STATEMENTS:

Prevention:

P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs. Get medical advice or attention.
P337 +P313	If eye irritation persists: Get medical advice or attention.
P312	If swallowed, call a POISON CENTER/doctor/physician if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

2.4 Other hazards:

Hazardous decomposition products: None listed

SECTION 3. Composition on Ingredients

3.1 Substances:

<u>Chemical name</u>	<u>CAS-No.</u>	<u>Wt. %</u>
Water-Non-Hazardous	7732-18-5	79%
Silicic acid, lithium salt	12627-14-4	18%
Silicic acid, potassium salt	1312-76-18	2%
Proprietary Compounds *	NA	<1%
Potassium Hydroxide	1310-58-3	<0.1%

*Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels.

SECTION 4. First-Aid Measures

4.1 Description of first aid measures:

FIRST AID- EYE CONTACT: Immediately flush eyes with water. Flush eyes with water for a **minimum** of 15 minutes, occasionally lifting and lowering upper lids. Remove contact lenses if worn. If eye irritation persists obtain medical advice or attention promptly.



FIRST AID- SKIN CONTACT: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.



FIRST AID- INHALATION: Remove person to fresh air and keep comfortable breathing. Call a Poison Control center/doctor if they feel unwell. If not breathing, give artificial respiration. Consult a Physician.



FIRST AID- 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.

4.2 Principle symptoms and health effects both acute and delayed:

EYE CONTACT: May cause eye irritation



SKIN CONTACT: Contact with skin may cause mild irritation. Prolonged or repeated contact can result in defatting skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.



INHALATION: Vapors can cause irritation of the respiratory tract. High concentrations can cause

Headache, nausea, weakness, light headedness, and stupor (CNS depression).



INGESTION: This material may be harmful or fatal if swallowed. Harmful or fatal if liquid is Aspirated into the lungs. Irritating to mouth, throat, and stomach. Can be readily Absorbed by the stomach and intestinal tract. Symptoms include burning sensation of the mouth and esophagus, nausea, vomiting, diarrhea, dizziness, staggering gait, drowsiness, loss of consciousness and delirium as well as additional central nervous system effects,

CHRONIC SYMPTOMS: None

4.3 Indication of any immediate medical attention and special treatment needed:

No specific actions are required.

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media:

Suitable Extinguishing Media: Use Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unsuitable Extinguishing Media: None Known

5.2 Special hazards arising from the substance or mixture:

Fire Hazard: None

Explosion Hazard: No -Product is **not** combustible

Reactivity: No hazardous combustion products or hazard reactions are known.

5.3 Advice for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA / NIOSH approved or equivalent) and full protective gear. Evacuate all unnecessary personnel. Water spray to cool containers or protect personnel.

SECTION 6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

General: Wear personal protection equipment (see Section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapors. If material is released indicate risk of slipping.

Protective Equipment: Wear protective clothing as appropriate for the work environment, including gloves, and eye/face protection. Use respiratory protection as recommended in Section 8-Exposure controls/personal protection.

Emergency Procedure: Collect spilled materials for disposal.

6.2 Environmental precautions:

Containment: Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Spills of materials which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll-free phone number (800) 424-8802.

6.3 Methods and material for containment and cleaning up:

Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth, dry sand, or earth, place in a chemical waste container, and dispose of according to local/state/federal regulations. Do not touch or walk through spilled material. Avoid runoff into storm

sewers and ditches which lead to waterways. Ventilate spilled area. Stay upwind of spill. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Exhaust vapors.

6.4 Reference to other Sections:

Refer to Sections 8 and 13 for additional information.

SECTION 7. Handling and Storage

7.1 Precautions for safe handling:

Work Practices: Use only in well ventilated places. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing.

Hygiene Practices: Do not eat, drink, or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.



7.2 Conditions for safe storage, including any incompatibilities:

K Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight. Do not let material freeze if possible,

Static Discharge: Not applicable

7.3 Specific end use(s):

Intended Use(s): Polished Concrete sealing compound

Prohibited use(s): None listed

SECTION 8. Exposure Controls/Personal Protection

8.1 Control Parameters:

Ingredients with Occupational Exposure Limit:

<u>Chemical Name</u>	<u>ACGIH-TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Silicic acid, Lithium salt:	N.E.	N.E.	N.E.	N.E.
Silicic acid. Potassium salt	N.E.	N.E.	N.E.	N.E.

Note- No exposure limit has been assigned to Silicic Acid, sodium salt. An exposure limit of 2 mg/m³ (15 min. TWA) is recommended by analogy with sodium hydroxide (UK EH40)

8.2 Exposure controls:

8.2.1 Engineering controls:

Minimize the release of fumes or vapors. Use process controls, local exhaust ventilation, or other engineering controls to maintain airborne levels below the limits shown in Section 8.1 above. See also ACGIH Industrial Ventilation-Recommended Practice (latest edition).

8.2.2 Personal protective equipment (PPE):



RESPIRATORY PROTECTION: NIOSH/MHSA approved respirators are necessary if airborne concentrations are expected to exceed exposure limits.



SKIN PROTECTION: Wear impervious, impermeable gloves such as butyl rubber based to prevent contact with the skin. Wear protective gear as needed such as apron, long sleeved shirts to minimize contact. Wash hands with soap and water after use.



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 or drink in areas where the material is used. Avoid breathing dust. Remove contaminated clothing and wash before re-use. Wash thoroughly after handling. Wash hands before eating.

SECTION 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Clear blue liquid	Physical State:	Liquid
Odor:	None	Odor Threshold:	N.D.
Spec. Grav. g/cm³:	1.044	pH:	Approx. 11.00 +/-0.50
Freeze Point, °F:	N.A.	Viscosity:	Approx. 20-30 cps
Solubility in Water:	Dilutable	Density:	8.70 lb. / gal
Boiling Range, F:	100 deg C/212 deg F	Flash Point, °F:	Not flammable
Evaporation Rate:	N.A.	Auto Ignition Temp, °F:	N.A.
V.O.C.:	0 lb./ gal/ o g/L	Vapor Pressure:	N.A

9.2 Note: See "Other Information" Section (16) for abbreviation legend

SECTION 10. Stability and Reactivity

10.1 Reactivity:

None

10.2 Chemical stability:

Stable under normal temperature and pressure

10.3 Possibility of hazardous reactions:

Hazardous reactions or polymerization will **not** occur.

10.4 Conditions to avoid:

None known

10.5 Incompatible materials:

None Known

10.6 Hazardous decomposition products:

None known

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects: Toxicological testing has **not** been conducted with this material.

11.1.1 Acute toxicity: All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation. Oral LD50 (rat) 3400 mg/kg bw.

11.1.2 Skin corrosion/irritation: Can cause skin irritation

11.1.3 Serious eye damage/eye irritation: Depending on concentration or residual monomers (typically less than 0.1%, vapors can collect above the liquid in closed containers. May cause eye irritation.

11.1.4 Respiratory or skin sensitization: Mist is an irritant to the respiratory tract. Inhalation LC50 (rat) >2.06 g/m3.

11.1.5 Germ cell mutagenicity: None

11.1.6 Carcinogenicity: No components of this product are present at levels greater than or equal to 0.1% are identified as carcinogens or possible carcinogens.

11.1.7 Reproductive toxicity: None

11.1.8 Specific target organ toxicity (single exposure): None

11.1.9 Specific target organ toxicity (repeated exposure): None

11.1.10 Aspiration hazard: None

Assessment: For this endpoint, **no** toxicological test data is available for this product.

11.1.11: NA

SECTION 12. Ecological Information**12.1 Toxicity**

Eco toxicity: Fish (Brachydanio rerio) LC50 (96 hrs.) 1108 mg/l

Aquatic invertebrates: Daphnia magna) EC50 (48 hrs.) 1700 mg/l

12.2 Persistence and degradability

Inorganic. The substance has no potential for bioaccumulation

12.3 Bioaccumulative potential

Inorganic, not known to bio-accummulate.

12.4 Mobility in Soil

Not applicable

12.5 Other adverse effects

The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

SECTION 13. Disposal Considerations

13.1 RCRA Waste Classification

Not known

13.2 Product disposal

Recommended to dispose of according to regulations in a special waste incinerator. Always dispose of any waste in accordance with all local, state, and federal regulations.

13.3 Packaging disposal

Completely discharge containers (no tear drops, no residual contents). Containers may be recycled or be reused. Observe local/state/federal regulations.

SECTION 14. Transport Information**14.1 UN Number:**

Not regulated

14.2 UN Proper Shipping Name / IMDG/IATA:

Not applicable/ not classified as a dangerous good

14.3 Transport hazards class:

Not applicable

14.4 Packing Group:

Not applicable

14.5 Environmental hazards:

Not relevant

14.6 Special precautions for user:

No special precautions

SECTION 15. Regulatory Information**15.1 U.S. Federal Regulations:****TSCA No:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory. This material does not contain any TSCA 12(b) regulated chemicals.

SARA SECTION 302: None

SARA SECTION 311/312 Hazard categories: Acute: yes

SARA SECTION 313 (Chemicals)

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and reauthorization Act of 1986 and 40CFR part 372:

CAS #	Chemical:	Upper limit wt. %
None		

RCRA:

No components are listed under the Resource Conservation and Recovery Act, or its regulations,, 40CFR S261 et. Seq.

CERCLA:

Components of this product have been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and reauthorization Act of 1986 (SARA Title III) and is considered , under applicable definitions, to meet the following categories:
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT:

None listed

CLEAN AIR ACT:

This product does not contain any Class I or Class II ozone depleting substances.

FDA:

No information

NTP:

No information

OSHA:

No information

15.2 U.S. State Regulations:

CALIFORNIA PROPOSITION 65:

This material does **not** contain any chemicals known to the state of California to cause cancer.

CALIFORNIA PROPOSITION 65 REPRODUCTIVETOXINS: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive toxins exist for this product.: None

MASSACHUSETTS TOXIC USE REDUCTION ACT:

This material contains no listed components

NEW JERSEY RIGHT-TO -KNOW:

This material contains no listed components

PENNSYLVANIA RIGHT-TO- KNOW:

This material contains no listed components

15.3 International regulations:

CANADIAN WHMIS:

This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all of the information required by the CPR

WHMIS Class: Class D2B (Toxic) Symbol: Stylized T

DSL Status: This material or one or more of its components is **not** listed on the Canadian Domestic Substances List.

EUROPEAN UNION:

No Information

IARC:

No information

15.4 Other Regulations

National, state, provincial or local emergency planning, community right to know or other laws, regulations or ordinances may be applicable-consult applicable national, state, provincial or local laws.

SECTION 16. Other Information

Revision Date: 11-26-19

Supersedes Date: 06-19-19

S.D.S. produced by: Specco Regulatory Department in accordance with the requirements outlined in the Federal Register, Volume 77, NO.58, March 2012 page 17574. In this final rule, OSHA modified its Hazard Communication Standard (HCS) to conform to the United Nation's Globally Harmonized System of Classification and Labeling of Chemicals (GHS). The modifications to the standard included but were not limited to revised criteria for classification of chemical hazards and a new specified format for Safety Data Sheets.

Standardized American System for the identification of hazards presented by this product in view of emergency procedures (NFPA 704) -H.M.I.S. Ratings:

Health:	1	Flammability:	0	Reactivity:	0	Personal Protection:	G
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Regarding Volatile Organic Compounds, gram/liter: N.A. (0)

DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (V.O.C.) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL V.O.C. CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING V.O.C. CONTENT AND THAT STANDARDS/REQUIREMENTS REGARDING V.O.C. CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, SPECCO MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESSED OR IMPLIED, REGARDING THIS MATERIAL'S COMPLIANCE WITH V.O.C. STANDARDS/REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

Text for GHS Hazard Statements shown in section 3 describing each ingredient:

H315 May cause skin irritation
H319 May cause eye irritation

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS07



Legend: * Refer to 49 CFR for possible exceptions and exemptions. Abbreviations: TLV= Threshold Limit Value. TWA= Time Weighted Average. STEL= Short Term Exposure Limit. N.A. = Not Applicable. N.D. = Not Determined, N.E. =Not Established. IATA= International Air Transport Association. IMDG= International Maritime Dangerous Goods.

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