

## Section 1: IDENTIFICATION

**Product Name:** Gesswein® Diemaker Stones

**Synonyms:** Not available.

**Product Use:** General purpose stoning on hard and soft tool and mold steels.

**Restrictions on Use:** Not available.

**Manufacturer/Supplier:** Paul H. Gesswein & Co., Inc.  
201 Hancock Ave.  
Bridgeport, CT 06605

**Phone Number:** 800-544-2043

**Emergency Phone:** 800-255-3924

**Date of Preparation of SDS:** February 9, 2024

## Section 2: HAZARD(S) IDENTIFICATION

## GHS INFORMATION

**Classification:** Carcinogenicity, Category 2 \*

\* Hazard applies to dust generated during use of this product.

## LABEL ELEMENTS

## Hazard

Pictogram(s):



**Signal Word:** Warning

**Hazard Statements:** Suspected of causing cancer by inhalation.

## Precautionary Statements

**Prevention:** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves, protective clothing and eye protection.

**Response:** IF exposed or concerned: Get medical attention.

**Storage:** Store locked up.

**Disposal:** Dispose of contents and container in accordance with applicable regional, national and local laws and regulations.

**Hazards Not Otherwise Classified:** Not applicable.

**Ingredients with Unknown Toxicity:** 5% of this product mixture consists of ingredient(s) of unknown acute toxicity.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )	Not available.	1344-28-1	65 - 85
Kaolin	Not available.	1332-58-7	10 - 30
Titanium oxide (TiO <sub>2</sub> )	Titanium dioxide	13463-67-7	1 - 5
Dextrin	Not available.	9004-53-9	1 - 5

Actual concentration range(s) withheld as a trade secret.

### Section 4: FIRST-AID MEASURES

<b>Inhalation:</b>	<p>If inhaled: Call a poison center or doctor if you feel unwell.</p> <p><b>Acute and delayed symptoms and effects:</b> As supplied, this product is not expected to cause any adverse effects. Dust generated during use may cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Inhalation of Titanium dioxide may cause blood changes.</p>
<b>Eye Contact:</b>	<p>If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell.</p> <p><b>Acute and delayed symptoms and effects:</b> As supplied, this product is not expected to cause any adverse effects. Dust generated during use may cause mechanical eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.</p>
<b>Skin Contact:</b>	<p>If on skin: Wash with plenty of water. Call a poison center or doctor if you feel unwell.</p> <p><b>Acute and delayed symptoms and effects:</b> As supplied, this product is not expected to cause any adverse effects. Dust generated during use may cause mechanical skin irritation. Signs/symptoms may include localized redness, swelling, and itching.</p>
<b>Ingestion:</b>	<p>If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.</p> <p><b>Acute and delayed symptoms and effects:</b> Not a normal route of exposure. If dust is swallowed, it may cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Ingestion of Titanium dioxide may cause ataxia (failure of muscular coordination), increased blood pressure, hallucinations, hypermotility, muscle contraction/spasticity, fatigue, psychosis, and tremors.</p>
<b>General Advice:</b>	<p>In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).</p>

**Note to Physicians:** Symptoms may not appear immediately.

### Section 5: FIRE-FIGHTING MEASURES

#### FLAMMABILITY AND EXPLOSION INFORMATION

Not flammable or combustible by OSHA/WHMIS criteria.

**Sensitivity to Mechanical Impact:** This material is not sensitive to mechanical impact.

**Sensitivity to Static Discharge:** This material is not sensitive to static discharge.

#### MEANS OF EXTINCTION

**Suitable Extinguishing Media:** Small Fire: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

**Unsuitable Extinguishing Media:** Not available.

**Products of Combustion:** Metal oxides.

**Protection of Firefighters:** Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

### Section 6: ACCIDENTAL RELEASE MEASURES

**Emergency Procedures:** Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

**Personal Precautions:** Do not touch or walk through spilled material. Use personal protection recommended in Section 8.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways.

**Methods for Containment:** Do not flush to sewer or allow to enter waterways.

**Methods for Clean-Up:** Sweep up and shovel into suitable containers for disposal.

**Other Information:** See Section 13 for disposal considerations.

### Section 7: HANDLING AND STORAGE

#### Handling:

Do not swallow. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. See Section 8 for information on Personal Protective Equipment.

#### Storage:

Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines

##### Component

Dust [CAS No. Not applicable]

**ACGIH:** 10 mg/m<sup>3</sup> (TWA) (Inhalable.); 3 mg/m<sup>3</sup> (TWA) (Respirable.); For Particles (Insoluble or Poorly Soluble) Not Otherwise Specified

**OSHA:** 15 mg/m<sup>3</sup> (Total dust) (TWA), 5 mg/m<sup>3</sup> (Respirable fraction) (TWA); For Particulates Not Otherwise Regulated (PNOR).

Aluminum oxide [CAS No. 1344-28-1]

**ACGIH:** 1 mg/m<sup>3</sup> (TWA); A4; Respirable particulate matter (2008); For Aluminum metal and Insoluble compounds

**OSHA:** 15 mg/m<sup>3</sup> (Total dust) (TWA), 5 mg/m<sup>3</sup> (Respirable fraction) (TWA); For Particulates Not Otherwise Regulated (PNOR).

Kaolin [CAS No. 1332-58-7]

**ACGIH:** 2 mg/m<sup>3</sup> (TWA); A4; The value is for particulate matter containing no asbestos and < 1% crystalline silica; Respirable fraction (1996)

**OSHA:** 15 mg/m<sup>3</sup> (Total dust) (TWA), 5 mg/m<sup>3</sup> (Respirable fraction) (TWA); 10 mg/m<sup>3</sup> (Total dust) (TWA) [Vacated];

Titanium dioxide [CAS No. 13463-67-7]

**ACGIH:** 2.5 mg/m<sup>3</sup> (TWA); A3; Respirable particulate matter (2021)

**OSHA:** 15 mg/m<sup>3</sup> (Total dust) (TWA); 10 mg/m<sup>3</sup> (TWA) (Total dust) [Vacated];

Dextrin [CAS No. 9004-53-9]

**ACGIH:** 10 mg/m<sup>3</sup> (TWA) (Inhalable.); 3 mg/m<sup>3</sup> (TWA) (Respirable.); For Particles (Insoluble or Poorly Soluble) Not Otherwise Specified

**OSHA:** 15 mg/m<sup>3</sup> (Total dust) (TWA), 5 mg/m<sup>3</sup> (Respirable fraction) (TWA); For Particulates Not Otherwise Regulated (PNOR).

**TWA:** Time-Weighted Average

#### Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)



#### Eye/Face Protection:

Wear safety glasses are recommended. Indirect vented, dust-tight goggles are required if dust is generated when handling this product. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3:20 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

<b>Hand Protection:</b>	Wear protective gloves. Consult manufacturer specifications for further information.
<b>Skin and Body Protection:</b>	Wear protective clothing.
<b>Respiratory Protection:</b>	If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-18, with particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.
<b>General Hygiene Considerations:</b>	Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

<b>Section 9: PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Thin rectangle stones in varying grits (100 to 1200).
<b>Colour:</b>	Brown
<b>Odour:</b>	Odorless.
<b>Odour Threshold:</b>	Not available.
<b>Physical State:</b>	Solid.
<b>pH:</b>	Not available.
<b>Melting Point / Freezing Point:</b>	Not available.
<b>Initial Boiling Point:</b>	Not available.
<b>Boiling Range:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Evaporation Rate:</b>	Not available.
<b>Flammability (solid, gas):</b>	See Section 5.
<b>Lower Flammability Limit:</b>	Not available.
<b>Upper Flammability Limit:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Relative Vapor Density:</b>	Not available.
<b>Relative Density:</b>	Not available.
<b>Solubilities:</b>	Not available.

## SAFETY DATA SHEET

**Partition Coefficient: n-Octanol/Water:** Not available.

**Auto-ignition Temperature:** Not available.

**Decomposition Temperature:** Not available.

**Kinematic Viscosity:** Not applicable.

**Percent Volatile, wt. %:** Not available.

**VOC content, wt. %:** Not available.

**Density:** Not available.

**Coefficient of Water/Oil Distribution:** Not available.

**Particle Characteristics:** Not available.

### Section 10: STABILITY AND REACTIVITY

**Reactivity:** Contact with incompatible materials. Exposure to heat.

**Chemical Stability:** Stable under normal storage conditions.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** Contact with incompatible materials. Exposure to heat.

**Incompatible Materials:** Not available.

**Hazardous Decomposition Products:** Not available.

### Section 11: TOXICOLOGICAL INFORMATION

#### EFFECTS OF ACUTE EXPOSURE

##### Product Toxicity

**Oral:** Not available.

**Dermal:** Not available.

**Inhalation:** Not available.

##### Component Toxicity

Component	CAS No.	LD <sub>50</sub> oral	LD <sub>50</sub> dermal	LC <sub>50</sub>
Aluminum oxide	1344-28-1	Not available.	Not available.	Not available.
Kaolin	1332-58-7	Not available.	Not available.	Not available.
Titanium dioxide	13463-67-7	Not available.	Not available.	Not available.
Dextrin	9004-53-9	Not available.	Not available.	Not available.

**Likely Routes of Exposure:** Eye contact. Skin contact. Inhalation. Ingestion.

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system.

## SAFETY DATA SHEET

**Symptoms (including delayed and immediate effects)**

**Inhalation:** As supplied, this product is not expected to cause any adverse effects. Dust generated during use may cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Inhalation of Titanium dioxide may cause blood changes.

**Eye:** As supplied, this product is not expected to cause any adverse effects. Dust generated during use may cause mechanical eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin:** As supplied, this product is not expected to cause any adverse effects. Dust generated during use may cause mechanical skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Ingestion:** Not a normal route of exposure. If dust is swallowed, it may cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Ingestion of Titanium dioxide may cause ataxia (failure of muscular coordination), increased blood pressure, hallucinations, hypermotility, muscle contraction/spasticity, fatigue, psychosis, and tremors.

**Skin Sensitization:** Not available.

**Respiratory Sensitization:** Not available.

**Medical Conditions Aggravated By Exposure:** Not available.

**EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)**

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Blood.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation. Prolonged or repeated exposure to Titanium dioxide dust generated during use may cause lung irritation, chest pain, and pulmonary edema.

**Carcinogenicity:** As supplied, this product is not expected to cause any adverse effects. Dust generated during use is suspected of causing cancer.

**Component Carcinogenicity**

Component	ACGIH	IARC	NTP	OSHA	Prop 65
Aluminum oxide	A4	Not listed.	Not listed.	Not listed.	Not listed.
Kaolin	A4	Not listed.	Not listed.	Not listed.	Not listed.
Titanium dioxide	A3	Group 2B	Not listed.	OSHA Carcinogen.	Listed.

**Mutagenicity:** Not available.

**Reproductive Effects:** Not available.

**Developmental Effects**

**Teratogenicity:** Not available.

**Embryotoxicity:** Not available.

**Toxicologically Synergistic Materials:** Not available.

<b>Section 12: ECOLOGICAL INFORMATION</b>
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<b>Ecotoxicity:</b>	Not available.
<b>Persistence / Degradability:</b>	Not available.
<b>Bioaccumulation / Accumulation:</b>	Not available.
<b>Mobility in Environment:</b>	Not available.
<b>Other Adverse Effects:</b>	Not available.

<b>Section 13: DISPOSAL CONSIDERATIONS</b>
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**Disposal Instructions:** Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

<b>Section 14: TRANSPORT INFORMATION</b>
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**U.S. Department of Transportation (DOT)**

<b>Proper Shipping Name:</b>	Not regulated.
<b>Class:</b>	Not applicable.
<b>UN Number:</b>	Not applicable.
<b>Packing Group:</b>	Not applicable.
<b>Placard(s):</b>	Not applicable.

**Canada Transportation of Dangerous Goods (TDG)**

<b>Proper Shipping Name:</b>	Not regulated.
<b>Class:</b>	Not applicable.
<b>UN Number:</b>	Not applicable.
<b>Packing Group:</b>	Not applicable.
<b>Placard(s):</b>	Not applicable.

<b>Section 15: REGULATORY INFORMATION</b>
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**Chemical Inventories****US (TSCA)**

The components of this product are in compliance with the chemical notification requirements of TSCA.

**Canada (DSL)**

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.



**Federal Regulations****United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**SARA Title III****Component**

	<b>Section 302 (EHS) TPQ (lbs.)</b>	<b>Section 304 EHS RQ (lbs.)</b>	<b>CERCLA RQ (lbs.)</b>	<b>Section 313</b>	<b>RCRA CODE</b>	<b>CAA 112(r) TQ (lbs.)</b>
Aluminum oxide	Not listed.	Not listed.	Not listed.	313	Not listed.	Not listed.

**Section 16: OTHER INFORMATION****Disclaimer:**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

**Date of Preparation of SDS:** February 9, 2024

**Version:** 1.2

**GHS SDS Prepared by:** Deerfoot Consulting Inc.

**Phone: (403) 720-3700**