

SAFETY DATA SHEET
according to Regulation (EU) 2015/830

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GESSWEIN HYBRID DIAMOND COMPOUND ALL GRADES

Revision 0
Revision date 2019-04-16

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	GESSWEIN HYBRID DIAMOND COMPOUND ALL GRADES
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC25] Metal working fluids; [PROC21] Low energy manipulation of substances bound in materials and/o articles; [ERC12a] Industrial processing of articles with abrasive techniques (low release);
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1.3. Details of the supplier of the safety data sheet

Company Address	Paul H. Gesswein & Co., Inc. 201 Hancock Ave. Bridgeport, CT 06605 USA
Web	www.gesswein.com
Telephone	203-366-5400
Fax	
Email	jharsh@gesswein.com
Email address of the competent person	

1.4. Emergency telephone number


Emergency telephone number Company	800-255-3924 Chemtel
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Eye Irrit. 2: H319;
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2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Eye Irrit. 2: H319 - Causes serious eye irritation.

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2.2. Label elements

Precautionary Statement: Prevention	P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: 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. P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Other hazards	PBT/vPvB assessment is not available as a chemical safety assessment is either not required or has not been conducted.
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Further information

	Labelling in accordance with CLP 1.5.2 Exemptions from Article 17. Not required.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Polyoxyethylene Tridecyl Phosphate Ester		9046-01-9			1 - 10%	Skin Irrit. 2: H315; Eye Dam. 1: H318;
Mineral Oil Light (Mineral Oil)		8042-47-5	232-455-8	01-2119487078-27	30 - 40%	Asp. Tox. 1: H304;
Diamond Abrasive (Synthetic Diamond)		7782-40-3	231-953-2	01-2119852677-24	20 - 30%	
Mixed Vegetable Oils (Olive Oil)		8001-25-0			1 - 10%	
Amorphous Silica		7631-86-9	231-545-4	01-2119379499-16 01-2119379499-16	1 - 10%	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Seek medical attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention. May cause irritation to eyes.
Skin contact	May cause irritation to skin. Wash with soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Drink 1 to 2 glasses of water. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Skin contact	Prolonged contact may cause redness, irritation and dryness.
Ingestion	Ingestion may cause nausea and vomiting.

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

Inhalation	Remove the affected person from the source of contamination immediately.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	Wash with soap and water.
Ingestion	DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water.

General information

	If you feel unwell, seek medical advice (show the label where possible). Wash all contaminated clothing before reuse.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use as appropriate: Carbon dioxide (CO ₂), Dry chemical, Foam. Use extinguishing media
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5.1. Extinguishing media

appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Toxic Fumes and Dust may be formed in fire conditions.

5.3. Advice for firefighters

Wear: Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Sweep up.

6.2. Environmental precautions

Do not allow product to enter drains. Do not flush into surface water.

6.3. Methods and material for containment and cleaning up

Clean area thoroughly with detergent. Clean spillage area thoroughly with plenty of water. Transfer to suitable, labelled containers for disposal.

6.4. Reference to other sections

See section 2, 7, 8 & 9 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Wear suitable protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Store in original container. Do NOT allow to freeze.

7.3. Specific end use(s)

Use as Supplied. For use as a metal working lubricant/coolant in industrial applications only.

Suitable packaging

Plastic containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ensure adequate ventilation of the working area. Mechanical ventilation recommended.

8.1.1. Exposure Limit Values

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8.1.1. Exposure Limit Values

Amorphous Silica	<p>WEL 8-hr limit ppm:</p> <p>WEL 15 min limit ppm:</p> <p>WEL 8-hr limit mg/m³ total-inhalable dust:</p> <p>WEL 8-hr limit mg/m³ total-respirable dust:</p>	<p>WEL 8-hr limit mg/m³ 6 TWA Inhalable Dust</p> <p>WEL 15 min limit mg/m³ 2.4 TWA Respirable Dust</p> <p>WEL 15 min limit mg/m³ total-inhalable dust:</p> <p>WEL 15 min limit mg/m³ total-respirable dust:</p>
Diamond Abrasive (Synthetic Diamond)	<p>WEL 8-hr limit ppm:</p> <p>WEL 15 min limit ppm:</p> <p>WEL 8-hr limit mg/m³ total¹⁰ inhalable dust:</p> <p>WEL 8-hr limit mg/m³ total⁴ respirable dust:</p>	<p>WEL 8-hr limit mg/m³:</p> <p>WEL 15 min limit mg/m³:</p> <p>WEL 15 min limit mg/m³ total-inhalable dust:</p> <p>WEL 15 min limit mg/m³ total-respirable dust:</p>
Mineral Oil Light (Mineral Oil)	<p>WEL 8-hr limit ppm:</p> <p>WEL 15 min limit ppm:</p> <p>WEL 8-hr limit mg/m³ total-inhalable dust:</p> <p>WEL 8-hr limit mg/m³ total-respirable dust:</p>	<p>WEL 8-hr limit mg/m³ 5 Oil Mist</p> <p>WEL 15 min limit mg/m³:</p> <p>WEL 15 min limit mg/m³ total-inhalable dust:</p> <p>WEL 15 min limit mg/m³ total-respirable dust:</p>
Mixed Vegetable Oils (Olive Oil)	<p>WEL 8-hr limit ppm:</p> <p>WEL 15 min limit ppm:</p> <p>WEL 8-hr limit mg/m³ total-inhalable dust:</p> <p>WEL 8-hr limit mg/m³ total-respirable dust:</p>	<p>WEL 8-hr limit mg/m³ 5 Oil Mist</p> <p>WEL 15 min limit mg/m³ 10 Oil Mist</p> <p>WEL 15 min limit mg/m³ total-inhalable dust:</p> <p>WEL 15 min limit mg/m³ total-respirable dust:</p>
Phosphoric acid...% (Orthophosphoric acid)	<p>WEL 8-hr limit ppm:-</p> <p>WEL 15 min limit ppm:-</p> <p>WEL 8-hr limit mg/m³ total-inhalable dust:</p> <p>WEL 8-hr limit mg/m³ total-respirable dust:</p>	<p>WEL 8-hr limit mg/m³ 1</p> <p>WEL 15 min limit mg/m³ 2</p> <p>WEL 15 min limit mg/m³ total-inhalable dust:</p> <p>WEL 15 min limit mg/m³ total-respirable dust:</p>

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area. Mechanical ventilation recommended.
8.2.2. Individual protection measures	Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Eye / face protection	Safety glasses. Avoid contact with eyes. Wear Splash-proof eye goggles manufactured and tested according to EN 166.
Skin protection - Handprotection	Use Chemical resistant gloves according to EN 374. Suitability and durability of the glove is dependant on glove material and duration of contact. Breakthrough time glove material and thickness data are currently not available. Contact the glove manufacturer for more information.
Respiratory protection	Not normally required. Wear suitable respiratory equipment when necessary.
8.2.3. Environmental exposure controls	Dispose of this material and its container to hazardous or special waste collection point.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Paste
Colour	Various Depending On Grade
Odour threshold	No data available
pH	> 5
Melting point	No data available
Initial boiling point	No data available
Flash point	Not applicable.
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	≈ 1 (H ₂ O = 1 @ 20 °C)
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	> 5000 x 10 ⁻⁶ m ² /s @ 40 °C (ISO 3104/3105)
Explosive properties	Not applicable.
Oxidising properties	No data available
Solubility	Miscible in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	Not applicable.
Benzene Content	No data available
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

None expected under normal conditions of use.

10.2. Chemical stability

Will not decompose if stored and used as recommended.

10.3. Possibility of hazardous reactions

None expected under normal conditions of use.

10.4. Conditions to avoid

Do NOT allow to freeze. Direct sunlight. Heat, sparks and open flames.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Incomplete combustion will produce toxic and noxious fumes including carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on this product.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May Cause Eye Irritation.

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11.1. Information on toxicological effects

Respiratory or skin sensitisation	No sensitization effects reported.
Repeated or prolonged exposure	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

11.1.4. Toxicological Information

Amorphous Silica	Oral Rat LD50: 5000 Inhalation Rat LC50/4 h:2.2	Dermal Rabbit LD50:2000
Diamond Abrasive	Dermal Rat LD50: >2000 mg/kg Inhalation Rat LC50/4 h>5.2 mg/li	Oral Rat LD50: >2000 mg/Kg
Mineral Oil Light	Oral Rat LD50: >5000mg/kg Inhalation Rat LC50/4 h>5200 mg/m3	Dermal Rabbit LD50:>2000 mg/kg
Polyoxyethylene Tridecyl Phosphate Ester	Oral Rat LD50: >2000 mg/kg	

SECTION 12: Ecological information

12.1. Toxicity

Amorphous Silica	Daphnia EC50/48h: 7600.0000 mg/l Algae EC50/72h: 440	Fish LC50/96h: 5000.0000 mg/l Brachydanio Rerio LC50/96h5000
Mineral Oil Light	Fish LC50/96h: 400.0000 mg/l Rainbow trout LC50/96h>400000ppm	Algae LC50/96h: >5000000ppm

No data is available on this product.

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

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12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment is not available as a chemical safety assessment is either not required or has not been conducted.

12.6. Other adverse effects

No known adverse environmental effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Allocation of the correct EWC Number should be done in accordance with the European Waste Catalogue and should be carried out in agreement with an EA authorised waste disposal company.

General information

Can be incinerated if in compliance with local and national regulations. Dispose of in compliance with all local and national regulations.

Disposal methods

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Disposal methods

Dispose of this material and its container to hazardous or special waste collection point.

Disposal of packaging

Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations. Empty containers can be sent for disposal or recycling.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Regulation (EC) No 1907/2006 REACH, Regulation (EC) No 1272/2008 CLP. The Health and Safety at Work Act 1974. Workplace Exposure Limits EH40. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A chemical safety assessment has not been conducted.

SECTION 16: Other information

Other information

Text of Hazard Statements in Section 3

Skin Irrit. 2: H315 - Causes skin irritation.
Eye Dam. 1: H318 - Causes serious eye damage.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information

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Further information

	relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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