

Safety Data Sheet
acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

1 Identification

- **Product name:** Silicon Carbide Grinding Stone
- **Part number:** 81-10905, 81-10910
- **Application of the substance / the mixture** Abrasive
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Allied High Tech Products Inc.
2376 East Pacifica Place
USA-RANCHO DOMINGUEZ, CA 90220
USA
info@alliedhightech.com
- **Information department:** Product safety department
- **Emergency telephone number:**
During normal opening times: +1 (310) 635-2466
Chemtrec: +1 (202) 483-7616

*** 2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

- **Additional information:**

All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Quartz (SiO₂)
- **Hazard statements**
May cause cancer.
- **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020



Product name: Silicon Carbide Grinding Stone

(Contd. of page 1)

- Wear protective gloves/protective clothing/eye protection/face protection.
- IF exposed or concerned: Get medical advice/attention.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

| · Hazardous components and components with occupational exposure limits: | | | |
|---|----------------------------|--|---------|
| 409-21-2 | silicon carbide | | 50-100% |
| 13463-67-7 | titanium dioxide |  Carc. 2, H351 | 0.1-≤1% |
| 14808-60-7 | Quartz (SiO ₂) |  Carc. 1A, H350 | 0.1-≤1% |
| · Non-hazardous components: | | | |
| | Glass or glass porcelain | | 25-50% |
| | Unknown | | 10-25% |

- **Additional information:**
Unknown ingredient may contain concentrations of one of the following treatments: sulfur, paraffin or resin.
The specific chemical identity and/or exact percentage of the composition has been withheld as a trade secret.

* 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
Breathing difficulty
Coughing
Dermatitis
Eye irritation
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

Product name: Silicon Carbide Grinding Stone

(Contd. of page 2)

* 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store receptacle in a well ventilated area.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

| · Components with limit values that require monitoring at the workplace: | |
|---|--|
| 409-21-2 silicon carbide | |
| PEL | Long-term value: 15* 5** mg/m ³ fibrous dust: *total dust **respirable fraction |
| REL | Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction |
| TLV | Long-term value: 10* 3** mg/m ³ fibrous dust:0.1 f/cc; nonfibrous:*inh.,**resp. |
| 13463-67-7 titanium dioxide | |
| PEL | Long-term value: 15* mg/m ³ *total dust |
| TLV | Long-term value: 10 mg/m ³ |
| 14808-60-7 Quartz (SiO₂) | |
| PEL | Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2 |
| REL | Long-term value: 0.05* mg/m ³ *respirable dust |
| TLV | Long-term value: 0.025* mg/m ³ *as respirable fraction |

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
- **Breathing equipment:** Use suitable respiratory protective device when high concentrations are present.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

Product name: Silicon Carbide Grinding Stone

(Contd. of page 3)

· Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Leather gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties**· General Information****· Appearance:**

| | |
|------------------------|-----------------|
| Form: | Solid |
| Color: | Various colors |
| Odor: | Light |
| Odor threshold: | Not determined. |

· pH-value: Not applicable.

· Change in condition

| | |
|-------------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Undetermined. |

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

| | |
|---------------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

· Vapor pressure: Not applicable.

· Density: Not determined.

· Relative density 1.5-3.1

· Vapor density Not applicable.

· Evaporation rate Not applicable.

· Solubility in / Miscibility with

Water: Slightly soluble.

· Partition coefficient (n-octanol/water): Not determined.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

Product name: Silicon Carbide Grinding Stone

(Contd. of page 4)

| | |
|----------------------------|--|
| · Viscosity: | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Solvent content: | |
| VOC content: | 0.00 % |
| Solids content: | 100.0 % |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**
Keep away from oxidising agents and acidic substances.
Keep away from alkaline solutions.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

| | | |
|---|------|--------------------|
| · LD/LC50 values that are relevant for classification: | | |
| ATE (Acute Toxicity Estimate) | | |
| Oral | LD50 | >3,651 mg/kg (rat) |
| Dermal | LD50 | >3,651 mg/kg (rat) |

| | | |
|------------------------------------|----------|------------------------|
| 409-21-2 silicon carbide | | |
| Oral | LD50 | >2,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| 13463-67-7 titanium dioxide | | |
| Oral | LD50 | >20,000 mg/kg (rat) |
| Dermal | LD50 | >10,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >6.82 mg/l (rat) |

- **Primary chemical irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
Abrasive eye irritant
Abrasive skin irritant

- **Carcinogenic categories**

| | | |
|---|----------------------------|----|
| · IARC (International Agency for Research on Cancer) | | |
| 409-21-2 | silicon carbide | 2A |
| 13463-67-7 | titanium dioxide | 2B |
| 14808-60-7 | Quartz (SiO ₂) | 1 |
| · NTP (National Toxicology Program) | | |
| 14808-60-7 | Quartz (SiO ₂) | K |

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

Product name: Silicon Carbide Grinding Stone

(Contd. of page 5)

| |
|--|
| · OSHA-Ca (Occupational Safety & Health Administration) |
| None of the ingredients is listed. |

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Contact waste processors for recycling information.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

| | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADN, IMDG, IATA | not regulated |
| · UN proper shipping name | |
| · DOT, ADN, IMDG, IATA | not regulated |
| · Transport hazard class(es) | |
| · DOT, ADN, IMDG, IATA | |
| · Class | not regulated |
| · Packing group | |
| · DOT, IMDG, IATA | not regulated |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | not regulated |

*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

| |
|--|
| · Section 355 (extremely hazardous substances): |
| None of the ingredients is listed. |

| |
|--|
| · Section 313 (Specific toxic chemical listings): |
| None of the ingredients is listed. |

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

Product name: Silicon Carbide Grinding Stone

(Contd. of page 6)

| | |
|--|----------------------------|
| · TSCA (Toxic Substances Control Act): | |
| All components have the value ACTIVE. | |
| · Hazardous Air Pollutants | |
| None of the ingredients is listed. | |
| · Proposition 65 | |
| · Chemicals known to cause cancer: | |
| 13463-67-7 | titanium dioxide |
| 14808-60-7 | Quartz (SiO ₂) |
| · Chemicals known to cause reproductive toxicity for females: | |
| None of the ingredients is listed. | |
| · Chemicals known to cause reproductive toxicity for males: | |
| None of the ingredients is listed. | |
| · Chemicals known to cause developmental toxicity: | |
| None of the ingredients is listed. | |

· **National regulations:**· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.

· **Contact:** Kim Dermit

· **Last revision / supersedes version:** 06/03/2020 / 2.0

· **Supersedes date:** 05/01/2020

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Carc. 1A: Carcinogenicity – Category 1A

Carc. 2: Carcinogenicity – Category 2

· *** Data compared to the previous version altered.**