

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 Cut-Off & Wafering Blades, Rubber Bond
- **Part number:**
80-10030
80-11185 - 80-11225
80-30050 - 80-30060
80-40055 - 80-40065
80-50055 - 80-50065
- **Application of the substance / the mixture** Abrasive blade
- **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. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 3 H402 Harmful to aquatic life.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **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).

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

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(Contd. of page 1)

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**

potassium tetrafluoroborate
titanium dioxide

· **Hazard statements**

Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer. Route of exposure: Inhalation.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: 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%
9006-04-6	Natural rubber latex		10-25%
13397-24-5	Gypsum (Calcium sulfate)		10-25%
60304-36-1	Potassium aluminum fluoride	⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	10-<20%
1309-37-1	diiron trioxide		1-10%
15096-52-3	cryolite	⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332	2.5-<10%
7704-34-9	sulfur	⚠ Skin Irrit. 2, H315	1-<10%
1317-65-3	Limestone	⚠ Acute Tox. 4, H332	1-10%
557-04-0	magnesium stearate		1-10%
1305-78-8	calcium oxide	⚠ Eye Dam. 1, H318	1-<3%
1332-58-7	Kaolin		1-10%

(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 Cut-Off & Wafering Blades, Rubber Bond

(Contd. of page 2)

14075-53-7	potassium tetrafluoroborate	☠ Acute Tox. 3, H301; ☠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	1-<10%
1314-13-2	zinc oxide	☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.25-≤1%
13463-67-7	titanium dioxide	☠ Carc. 2, H351	0.1-≤1%

· Non-hazardous components:

Resin	1-10%
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· Additional information:

Product may contain many or all of the above ingredients.

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****· General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation: In case of unconsciousness place patient stably in side position for transportation.**· After skin contact:** Immediately wash with water and soap and rinse thoroughly.**· After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**· After swallowing:** Immediately call a 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:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

· 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.

*** 7 Handling and storage****· Handling:****· Precautions for safe handling** 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.

(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 Cut-Off & Wafering Blades, Rubber Bond

(Contd. of page 3)

No special requirements.

- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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.
9006-04-6 Natural rubber latex	
TLV	Long-term value: 0.0001* mg/m ³ Skin; DSEN, RSEN;* inh. fraction
13397-24-5 Gypsum (Calcium sulfate)	
REL	Long-term value: 10* 5** mg/m ³ *Total dust; **Respirable fraction
TLV	Long-term value: 10* mg/m ³ *as inhalable fraction
1309-37-1 diiron trioxide	
PEL	Long-term value: 10* mg/m ³ *Fume
REL	Long-term value: 5 mg/m ³ Dust & fume, as Fe
TLV	Long-term value: 5* mg/m ³ *as respirable fraction
15096-52-3 cryolite	
PEL	Long-term value: 2.5 mg/m ³ as F
REL	Long-term value: 2.5 mg/m ³ as F
1317-65-3 Limestone	
PEL	Long-term value: 15 mg/m ³
TLV	Long-term value: 10 mg/m ³
557-04-0 magnesium stearate	
TLV	Long-term value: 10* 3** mg/m ³ Fraction: *inhalable **respirable
1305-78-8 calcium oxide	
PEL	Long-term value: 5 mg/m ³
REL	Long-term value: 2 mg/m ³
TLV	Long-term value: 2 mg/m ³

(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 Cut-Off & Wafering Blades, Rubber Bond

(Contd. of page 4)

1332-58-7 Kaolin	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 2* mg/m ³ E; as respirable fraction
14075-53-7 potassium tetrafluoroborate	
PEL	Long-term value: 2.5 mg/m ³ as F
REL	Long-term value: 2.5 mg/m ³ as F
TLV	Long-term value: 2.5 mg/m ³ as F, BEI
1314-13-2 zinc oxide	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction and fume
REL	Short-term value: 10** mg/m ³ Long-term value: 5 mg/m ³ Ceiling limit value: 15* mg/m ³ *dust only **fume
TLV	Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *as respirable fraction
13463-67-7 titanium dioxide	
PEL	Long-term value: 15* mg/m ³ *total dust
TLV	Long-term value: 10 mg/m ³
· Ingredients with biological limit values:	
15096-52-3 cryolite	
BEI	2 mg/L Medium: urine Time: prior to shift Parameter: Fluoride (background, nonspecific)
	3 mg/L Medium: urine Time: end of shift Parameter: Fluoride (background, nonspecific)
14075-53-7 potassium tetrafluoroborate	
BEI	2 mg/L Medium: urine Time: prior to shift Parameter: Fluoride (background, nonspecific)
	3 mg/L Medium: urine Time: end of shift Parameter: Fluoride (background, nonspecific)

(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 Cut-Off & Wafering Blades, Rubber Bond

(Contd. of page 5)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
Not required.
Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



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:	According to product specification
· Odor: Characteristic	
· 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.	

(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 Cut-Off & Wafering Blades, Rubber Bond

(Contd. of page 6)

· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Specific gravity:	1.8 - 2.5 (Water = 1)
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· 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:** Degradation starts at 220 °C with 461.2 °C as final degradation temperature
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide
- **Additional information:** Hazardous decomposition products may form during combustion.

* 11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	>1,429 mg/kg
Dermal	LD50	>2,105 mg/kg (rat)
Inhalative	LC50/4 h	>17.2 mg/l

409-21-2 silicon carbide

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

1309-37-1 diiron trioxide

Oral	LD50	>5,000 mg/kg (rat)
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15096-52-3 cryolite

Inhalative	LC50/4 h	1.5 mg/l (ATE)
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1317-65-3 Limestone

Oral	LD50	6,450 mg/kg (rat)
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(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

Product name: Silicon Carbide Cut-Off & Wafering Blades, Rubber Bond

(Contd. of page 7)

Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	3 mg/l (rat)
14075-53-7 potassium tetrafluoroborate		
Oral	LD50	100 mg/kg (ATE)
1314-13-2 zinc oxide		
Oral	LD50	>5,000 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:** Irritant to skin and mucous membranes.

- **on the eye:** 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
1309-37-1	diron trioxide	3
14075-53-7	potassium tetrafluoroborate	3
13463-67-7	titanium dioxide	2B

- **NTP (National Toxicology Program)**

- None of the ingredients is listed.

- **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.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

- Do not allow product to reach ground water, water course or sewage system, even in small quantities.

- Danger to drinking water if even extremely small quantities leak into the ground.

- Harmful to aquatic organisms

- **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.

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

Product name: Silicon Carbide Cut-Off & Wafering Blades, Rubber Bond

(Contd. of page 8)

- **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):	1314-13-2 zinc oxide
· 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
· 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.
· 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.

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 06/03/2020

Version 2.1

Last revision 06/03/2020

Product name: Silicon Carbide Cut-Off & Wafering Blades, Rubber Bond

(Contd. of page 9)

- **Contact:** Kim Dermitt
- **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
 - BEI: Biological Exposure Limit
 - Acute Tox. 3: Acute toxicity – Category 3
 - Acute Tox. 4: Acute toxicity – Category 4
 - Skin Irrit. 2: Skin corrosion/irritation – Category 2
 - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 - Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
 - Carc. 2: Carcinogenicity – Category 2
 - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 - Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
 - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- *** Data compared to the previous version altered.**