1 Identification

- **Product name:** Silicon Carbide Cut-Off & Wafering Blades, Rubber Bond
- **Part number:**
  - 80-10030 - 80-10045
  - 80-11195 - 80-11225
  - 80-11400 - 80-11410
  - 80-30045 - 80-30060
  - 80-40045 - 80-40065
  - 80-50045 - 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**

  ![GHS07]

  Skin Irrit. 2  H315  Causes skin irritation.
  Eye Irrit. 2B H320  Causes eye irritation.
  Aquatic Acute 3 H402  Harmful to aquatic life.
  Aquatic Chronic 3 H412  Harmful to aquatic life with long lasting effects.
- **Additional information:** Classification may change depending on exact product composition.
- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
Product name: Silicon Carbide Cut-Off & Wafering Blades, Rubber Bond

- **Hazard pictograms**

![GHST07]

- **Signal word** Warning
- **Hazard statements**
  Causes skin and eye irritation.
  Harmful to aquatic life.
  Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
  Wash thoroughly after handling.
  Avoid release to the environment.
  Wear protective gloves.
  If on skin: Wash with plenty of water.
  Specific treatment (see on this label).
  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  If skin irritation occurs: Get medical advice/attention.
  Take off contaminated clothing and wash it before reuse.
  If eye irritation persists: Get medical advice/attention.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**
  Health = 1
  Fire = 0
  Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  Health = 1
  Fire = 0
  Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

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

- **Hazardous Components:**
  - 409-21-2 silicon carbide 25-50%
  - 13397-24-5 Gypsum (Calcium sulfate) 10-25%
  - 1309-37-1 diiron trioxide 10-25%
  - 9006-04-6 Natural rubber latex 10-25%
4 First-aid measures

- **Description of first aid measures**
  - **General information:** Immediately remove any clothing soiled by the product.
  - **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:** If symptoms persist consult doctor.
  - **Information for doctor:** Most important symptoms and effects, both acute and delayed: Coughing

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.
  - **Protective Action Criteria for Chemicals**
    - **PAC-1:**
      - 409-21-2 silicon carbide 45 mg/m³
      - 1309-37-1 diiron trioxide 15 mg/m³
Product name: Silicon Carbide Cut-Off & Wafering Blades, Rubber Bond

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>409-21-2 silicon carbide</td>
<td>500 mg/m³</td>
</tr>
<tr>
<td>1309-37-1 diiron trioxide</td>
<td>360 mg/m³</td>
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<tr>
<td>471-34-1 calcium carbonate</td>
<td>210 mg/m³</td>
</tr>
<tr>
<td>1314-13-2 zinc oxide</td>
<td>15 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>409-21-2 silicon carbide</td>
<td>3,000 mg/m³</td>
</tr>
<tr>
<td>1309-37-1 diiron trioxide</td>
<td>2,200 mg/m³</td>
</tr>
<tr>
<td>471-34-1 calcium carbonate</td>
<td>1,300 mg/m³</td>
</tr>
<tr>
<td>1314-13-2 zinc oxide</td>
<td>2,500 mg/m³</td>
</tr>
</tbody>
</table>

7 Handling and storage

- Handling:
  - Precautions for safe handling: No special precautions are necessary if used correctly.
  - 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.
  - 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/m³
    - fibrous dust: *total dust **respirable fraction
  - REL Long-term value: 10* 5** mg/m³
    - *total dust **respirable fraction
  - TLV Long-term value: 10* 3** mg/m³
    - fibrous dust: 0.1 f/cc; nonfibrous: *inh., **resp.

- **13397-24-5 Gypsum (Calcium Sulfate)**
  - REL Long-term value: 10* 5** mg/m³
    - *Total dust; **Respirable fraction
  - TLV Long-term value: 10* mg/m³
    - *as inhalable fraction
### 1309-37-1 diiron trioxide

**PEL**  Long-term value: 10* mg/m³  
*Fume  
**REL**  Long-term value: 5 mg/m³  
Dust & fume, as Fe  
**TLV**  Long-term value: 5* mg/m³  
*as respirable fraction

### 9006-04-6 Natural rubber latex

**TLV**  Long-term value: 0.0001* mg/m³  
Skin; DSEN, RSEN;* inh. fraction  

### 471-34-1 calcium carbonate

**PEL**  Long-term value: 15* 5** mg/m³  
*total dust **respirable fraction  
**REL**  Long-term value: 10* 5** mg/m³  
*total dust **respirable fraction  
**TLV**  TLV withdrawn

### 1314-13-2 zinc oxide

**PEL**  Long-term value: 15* 5** mg/m³  
*total dust **respirable fraction and fume  
**REL**  Short-term value: 10** mg/m³  
Long-term value: 5 mg/m³  
Ceiling limit value: 15* mg/m³  
*dust only **fume  
**TLV**  Short-term value: 10* mg/m³  
Long-term value: 2* mg/m³  
*as respirable fraction

- **Additional information:** The lists that were valid during the creation were used as basis.

- **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.  
    - Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.

- **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**
  - 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.
## 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>According to product specification</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined</td>
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<tr>
<td><strong>pH-value:</strong></td>
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</tr>
<tr>
<td><strong>Change in condition</strong></td>
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</tr>
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<td>Melting point/Melting range</td>
<td>Undetermined</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>Undetermined</td>
</tr>
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<td><strong>Flash point:</strong></td>
<td>Not applicable</td>
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<tr>
<td><strong>Flammability (solid, gaseous):</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Auto igniting:</strong></td>
<td>Product is not selfigniting</td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong></td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapor pressure:</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Density:</strong></td>
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</tr>
<tr>
<td>Relative density</td>
<td>Not determined</td>
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<tr>
<td>Vapor density</td>
<td>Not applicable</td>
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<tr>
<td>Specific gravity</td>
<td>1.8 - 2.5 (Water = 1)</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td><strong>Solubility in / Miscibility with Water:</strong></td>
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<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
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</tr>
<tr>
<td>Dynamic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

(Contd. on page 7)
Product name: Silicon Carbide Cut-Off & Wafering Blades, Rubber Bond

47.0

· Solvent content:
  VOC content: 0.00%
  0.0 g/l / 0.00 lb/gl

· 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:
  Degredation starts at 220 °C with 461.2 °C as final degredation 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:
  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 4,154 mg/kg (rat)
  Dermal LD50 4,154 mg/kg (rat)

  409-21-2 silicon carbide
  Oral LD50 2,010 mg/kg (rat)
  Dermal LD50 2,010 mg/kg (rat)

  1309-37-1 diiron trioxide
  Oral LD50 >5,000 mg/kg (rat)

  471-34-1 calcium carbonate
  Oral LD50 6,450 mg/kg (rat)

  1314-13-2 zinc oxide
  Oral LD50 >5,000 mg/kg (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)
  1309-37-1 diiron trioxide

(Contd. on page 8)
Product name: Silicon Carbide Cut-Off & Wafering Blades, Rubber Bond

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:
      Water hazard class 1 (Self-assessment): slightly hazardous for water
      Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
    - 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 MARPOL 73/78 and the IBC Code
  - Not applicable.
**Product name:** Silicon Carbide Cut-Off & Wafering Blades, Rubber Bond

**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):**
      - 409-21-2 silicon carbide
      - 1309-37-1 diiron trioxide
      - 60304-36-1 Potassium aluminum fluoride
      - 7704-34-9 sulfur
      - 471-34-1 calcium carbonate
      - 1314-13-2 zinc oxide
  - **TSCA new (21st Century Act) (Substances not listed)**
    - 13397-24-5 Gypsum (Calcium sulfate)
    - 9006-04-6 Natural rubber latex
  - **Proposition 65**
    - **Chemicals known to cause cancer:**
      - None of the ingredients is listed.
    - **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.
  - **Carcinogenic categories**
    - **EPA (Environmental Protection Agency)**
      - 1314-13-2 zinc oxide D, I, II
    - **TLV (Threshold Limit Value established by ACGIH)**
      - 409-21-2 silicon carbide A2
      - 1309-37-1 diiron trioxide A4
    - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
      - 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.
- **Contact:** Kim Dermit
- **Date of preparation / last revision** 06/14/2018 / -
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - 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)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - 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
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
  - 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3