1 Identification

· Product name: Silicon Carbide Abrasive Papers, 53-Series
· Part number: 53-10005 - 53-10184
· 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: The product is not classified, according to the Globally Harmonized System (GHS).

· Label elements
  · GHS label elements: Void
  · Hazard pictograms: Void
  · Signal word: Void
  · Hazard statements: Void
· Classification system:
· NFPA ratings (scale 0 - 4)

- Health = 0
- Fire = 0
- Reactivity = 0

· HMIS-ratings (scale 0 - 4)

- Health = 0
- 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.
Product name: Silicon Carbide Abrasive Papers, 53-Series

**4 First-aid measures**

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **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
      - Headache
      - Coughing
  - **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:** Wear self-contained respiratory protective device.

**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:** Dispose of the collected material according to regulations.
- **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**

<table>
<thead>
<tr>
<th>PAC</th>
<th>Component</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAC-1:</td>
<td>409-21-2 silicon carbide</td>
<td>45 mg/m³</td>
</tr>
<tr>
<td></td>
<td>1333-86-4 Carbon black</td>
<td>9 mg/m³</td>
</tr>
<tr>
<td>PAC-2:</td>
<td>409-21-2 silicon carbide</td>
<td>500 mg/m³</td>
</tr>
<tr>
<td></td>
<td>1333-86-4 Carbon black</td>
<td>99 mg/m³</td>
</tr>
<tr>
<td>PAC-3:</td>
<td>409-21-2 silicon carbide</td>
<td>3,000 mg/m³</td>
</tr>
<tr>
<td></td>
<td>1333-86-4 Carbon black</td>
<td>590 mg/m³</td>
</tr>
</tbody>
</table>

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling** No special measures required.
Product name: Silicon Carbide Abrasive Papers, 53-Series

· 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: Store in dry conditions.
  · 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:

<table>
<thead>
<tr>
<th></th>
<th>409-21-2 silicon carbide</th>
<th>1333-86-4 Carbon black</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL</td>
<td>Long-term value: 15* 5** mg/m³</td>
<td>Long-term value: 3.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>fibrous dust: *total dust **respirable fraction</td>
<td></td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 10* 5** mg/m³</td>
<td>Long-term value: 3.5* mg/m³</td>
</tr>
<tr>
<td></td>
<td>*total dust **respirable fraction</td>
<td>*0.1 in presence of PAHs</td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 10* 3** mg/m³</td>
<td>Long-term value: 3* mg/m³</td>
</tr>
<tr>
<td></td>
<td>fibrous dust:0.1 f/cc; nonfibrous:*inh.,**resp.</td>
<td>*inhalable fraction</td>
</tr>
</tbody>
</table>

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

· Exposure controls
  · Personal protective equipment:
    · General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.
    · 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.

· 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.

· 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: Not required.

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance:
      · Form: Solid
      · Color: According to product specification
      · Odor: Odorless

(Contd. on page 2)
Product name: Silicon Carbide Abrasive Papers, 53-Series

| · 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:          | Not determined. |
| · Vapor density:             | Not applicable. |
| · 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: No decomposition if used according to specifications.
· Possibility of hazardous reactions: No dangerous reactions known.
· Conditions to avoid: Keep away from heat.
· 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:

<table>
<thead>
<tr>
<th>ATE (Acute Toxicity Estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>13,490 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
</tr>
<tr>
<td>13,490 mg/kg (rat)</td>
</tr>
</tbody>
</table>
Product name: Silicon Carbide Abrasive Papers, 53-Series

<table>
<thead>
<tr>
<th>Compound</th>
<th>Route</th>
<th>LD50 mg/kg (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>409-21-2 silicon carbide</td>
<td>Oral</td>
<td>2,010</td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>2,010</td>
</tr>
<tr>
<td>1333-86-4 Carbon black</td>
<td>Oral</td>
<td>10,000</td>
</tr>
</tbody>
</table>

- **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
  - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - 409-21-2 silicon carbide: 2A
    - 1333-86-4 Carbon black: 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.

- **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
### 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.

**TSCA (Toxic Substances Control Act):**

All other ingredients are exempt from listing.

<table>
<thead>
<tr>
<th>Material</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper Backing</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>Polymeric Resin (cured)</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>409-21-2 silicon carbide</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>1333-86-4 Carbon black</td>
<td>ACTIVE</td>
</tr>
</tbody>
</table>

**Hazardous Air Pollutants**

None of the ingredients is listed.

**Proposition 65**

**Chemicals known to cause cancer:**

1333-86-4 Carbon black

**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)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

<table>
<thead>
<tr>
<th>Material</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>409-21-2 silicon carbide</td>
<td>A2</td>
</tr>
<tr>
<td>1333-86-4 Carbon black</td>
<td>A4</td>
</tr>
</tbody>
</table>
Product name: Silicon Carbide Abrasive Papers, 53-Series

- NIOSH-Ca (National Institute for Occupational Safety and Health)
  1333-86-4 Carbon black

- 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:** 05/01/2020 / 2.0
- **Abbreviations and acronyms:**
  - 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
  - Self-heat. 2: Self-heating substances and mixtures – Category 2
  - Carc. 2: Carcinogenicity – Category 2