1 Identification

- **Product name:** Silicon Carbide Abrasive Papers, 53-Series
- **Part number:** 53-10000 - 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.

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

3 Composition/information on ingredients

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

<table>
<thead>
<tr>
<th>Hazardous Components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>409-21-2 silicon carbide</td>
<td>10-25%</td>
</tr>
<tr>
<td>1333-86-4 Carbon black</td>
<td>≤2.5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-hazardous Components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>paper backing</td>
<td>50-100%</td>
</tr>
<tr>
<td>Polymeric Resin (cured)</td>
<td>10-25%</td>
</tr>
<tr>
<td>Synthetic rubber adhesive (PSA)</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

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.
7 Handling and storage

- Handling:
  - Precautions for safe handling: No special measures required.
  - 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: 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>Component</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>409-21-2 silicon carbide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value:</td>
<td>15* 5** mg/m³</td>
<td>10* 5** mg/m³</td>
<td>10* 3** mg/m³</td>
</tr>
<tr>
<td>fibrous dust:</td>
<td>*total dust **respirable fraction</td>
<td>*total dust **respirable fraction</td>
<td>fibrous dust:0.1 f/cc; nonfibrous:*inh.,**resp.</td>
</tr>
<tr>
<td>1333-86-4 Carbon black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term value:</td>
<td>3.5 mg/m³</td>
<td>3.5* mg/m³</td>
<td>3* mg/m³</td>
</tr>
<tr>
<td>*0.1 in presence of PAHs; See Pocket Guide Apps.A+C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV Long-term value:</td>
<td>3* mg/m³</td>
<td>*inhalable fraction</td>
<td></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.
**Product name: Silicon Carbide Abrasive Papers, 53-Series**

- **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.
- **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

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
<th></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: Solid</td>
<td></td>
</tr>
<tr>
<td>Color: According to product specification</td>
<td></td>
</tr>
<tr>
<td>Odor: Odorless</td>
<td></td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
<td></td>
</tr>
<tr>
<td>pH-value: Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range: Undetermined.</td>
<td></td>
</tr>
<tr>
<td>Boiling point/Boiling range: Undetermined.</td>
<td></td>
</tr>
<tr>
<td>Flash point: Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gaseous): Not determined.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Auto igniting: Product is not selfigniting.</td>
<td></td>
</tr>
<tr>
<td>Danger of explosion: Product does not present an explosion hazard.</td>
<td></td>
</tr>
<tr>
<td>Explosion limits: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td></td>
</tr>
<tr>
<td>Upper: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure: Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Density: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Relative density Not determined.</td>
<td></td>
</tr>
<tr>
<td>Vapor density Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water: Insoluble.</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water): Not determined.</td>
<td></td>
</tr>
<tr>
<td>Viscosity: Dynamic: Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Kinematic: Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>
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. In most cases, the material being removed from the work piece will be significantly greater than the coated abrasive product components released by grinding.

11 Toxicological information

- **Information on toxicological effects**

  - **Acute toxicity**:

    - **LD/LC50 values that are relevant for classification**:

      **ATE (Acute Toxicity Estimate)**
      - Oral LD50 13,490 mg/kg (rat)
      - Dermal LD50 13,490 mg/kg (rat)
      - 409-21-2 silicon carbide
        - Oral LD50 2,010 mg/kg (rat)
        - Dermal LD50 2,010 mg/kg (rat)
      - 1333-86-4 Carbon black
        - Oral LD50 10,000 mg/kg (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
    - 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)**
    - 1333-86-4 Carbon black 2B

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Safety Data Sheet
acc. to OSHA HCS

Product name: Silicon Carbide Abrasive Papers, 53-Series

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 known to be hazardous to 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 packaging:
  - 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: not regulated
- 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.
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):
    - 409-21-2 silicon carbide
    - 1333-86-4 Carbon black
  - TSCA new (21st Century Act) (Substances not listed)
    - paper backing
    - Polymeric Resin (cured)
    - Synthetic rubber adhesive (PSA)
  - 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)
    - 409-21-2 silicon carbide
      - A2
    - 1333-86-4 Carbon black
      - A4
  - 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
- Date of preparation / last revision 06/14/2018 / -
Product name: Silicon Carbide Abrasive Papers, 53-Series

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)
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