1 Identification

- Product name: Aluminum Oxide Abrasive Belts
- Part number: 50-10460 - 50-10485
- 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
  Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- Label elements
  - GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms: Void
  - Signal word: Void
  - Hazard statements: Harmful to aquatic life with long lasting effects.

- Precautionary statements
  - Avoid release to the environment.
  - 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
## 3 Composition/information on ingredients

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

### Hazardous Components:

<table>
<thead>
<tr>
<th>Substance ID</th>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1344-28-1</td>
<td>aluminium oxide</td>
<td>10-&lt;25%</td>
</tr>
<tr>
<td>15096-52-3</td>
<td>cryolite</td>
<td>10-&lt;25%</td>
</tr>
<tr>
<td>471-34-1</td>
<td>calcium carbonate</td>
<td>≤10%</td>
</tr>
</tbody>
</table>

### Non-hazardous Components:

<table>
<thead>
<tr>
<th>Substance ID</th>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cotton or polyester cloth</td>
<td>10-&lt;25%</td>
</tr>
<tr>
<td>9003-35-4</td>
<td>Phenolic Polymer</td>
<td>10-&lt;25%</td>
</tr>
<tr>
<td></td>
<td>Proprietary Ingredient</td>
<td>0.1-≤2.5%</td>
</tr>
</tbody>
</table>

## 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** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## 5 Fire-fighting measures

### Extinguishing media
- **Suitable extinguishing agents:**
  - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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:
- Dispose contaminated material as waste according to item 13.
Product name: Aluminum Oxide Abrasive Belts

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 precautions are necessary if used correctly.
· Information about protection against explosions and fires: When using do not smoke.
· Conditions for safe storage, including any incompatibilities
· Storage:
  · Requirements to be met by storerooms and receptacles: Keep humidity at 30 to 60%
  · Information about storage in one common storage facility: Not required.
· Further information about storage conditions: Store at temperatures not exceeding 40°C.
· 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>Substance</th>
<th>PEL</th>
<th>Long-term value: 15*; 5** mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>REL</td>
<td>Long-term value: 10* 5** mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>as Al *Total dust **Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>TLV</td>
<td>Long-term value: 2* mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>as F *as respirable fraction</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL</th>
<th>Long-term value: 2.5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>REL</td>
<td>Long-term value: 2.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>as F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL</th>
<th>Long-term value: 15* 5** mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>REL</td>
<td>Long-term value: 10* 5** mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>as total dust **respirable fraction</td>
</tr>
<tr>
<td></td>
<td>TLV</td>
<td>TLV withdrawn</td>
</tr>
</tbody>
</table>

PEL: Permissible Exposure Limit, REL: Recommended Exposure Limit, TLV: TWA Limit value.
Product name: Aluminum Oxide Abrasive Belts

- **Ingredients with biological limit values:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Limit Value</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>15096-52-3 cryolite</td>
<td>2 mg/L</td>
<td>urine</td>
<td>prior to shift</td>
<td>Fluoride (background, nonspecific)</td>
</tr>
<tr>
<td></td>
<td>3 mg/L</td>
<td>urine</td>
<td>end of shift</td>
<td>Fluoride (background, nonspecific)</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:** Wash hands before breaks and at the end of work.

- **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

- **Information on basic physical and chemical properties**

- **General Information**

  - **Appearance:**
    - **Form:** Belt
    - **Color:** According to product specification
    - **Odor:** Odorless
    - **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.
Product name: Aluminum Oxide Abrasive Belts

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: 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)
      - Inhalative LC50/4 h: 5.83 mg/l
    - 15096-52-3 cryolite
      - Inhalative LC50/4 h: 1.5 mg/l (ATE)
- Primary chemical irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
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: Generally 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
Product name: Aluminum Oxide Abrasive Belts

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):
      - 1344-28-1 aluminium oxide
    - TSCA (Toxic Substances Control Act):
      - 1344-28-1 aluminium oxide
    - 9003-33-4 Phenolic Polymer
    - 15096-52-3 cryolite
    - 471-34-1 calcium carbonate
    - 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)
        None of the ingredients is listed.
      - TLV (Threshold Limit Value established by ACGIH)
        - 1344-28-1 aluminium oxide
          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: 06/08/2018 / -
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
BEI: Biological Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4
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