



Safety Data Sheet
acc. to OSHA HCS

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

1 Identification

- Product name: Aluminum Oxide Abrasive Belts
Part number: 50-10220-A, 50-10456, 50-10460, 50-10470, 50-10475, 50-10480, 50-10490
Application of the substance / the mixture Abrasive
Details of the supplier of the safety data sheet
Manufacturer/Supplier: Allied High Tech Products Inc.
Information department: Product safety department
Emergency telephone number: +1 (310) 635-2466

2 Hazard(s) identification

- Classification of the substance or mixture: 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.
Label elements: GHS label elements, Hazard pictograms, Signal word, Hazard statements, Precautionary statements

3 Composition/information on ingredients

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

Table with 3 columns: CAS number, Ingredient name, and Exposure limits. Includes entries for aluminium oxide and Limestone.

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

**Product name: Aluminum Oxide Abrasive Belts**

(Contd. of page 1)

1332-58-7	Kaolin	1-5%
557-05-1	zinc distearate, pure	1-5%
15096-52-3	cryolite ⚠ Aquatic Chronic 2, H411; ⚠ Acute Toxicity - Inhalation 4, H332	2.5-<5%
107-21-1	ethylene glycol ⚠ Acute Toxicity - Oral 4, H302	1-5%
1309-37-1	diiron trioxide	1-5%
7778-18-9	calcium sulphate, natural	1-5%
14075-53-7	potassium tetrafluoroborate ⚠ Acute Toxicity - Oral 3, H301; ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319	1-5%
<b>· Non-hazardous components:</b>		
	Paper Backing	10-20%
	Resin	10-20%
	Wax	5-10%
	Garnet	5-10%
	Filler	1-5%
	Nylon loop	1-5%
1592-23-0	calcium distearate, pure	1-5%
	Lubricant	1-5%

**· 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**

- **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**  
Eye irritation  
Dermatitis
- **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:** 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.

(Contd. on page 3)

# Safety Data Sheet

*acc. to OSHA HCS*

Printing date 06/01/2022

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Last revision 06/01/2022

**Product name: Aluminum Oxide Abrasive Belts**

(Contd. of page 2)

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:** 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**

· <b>Components with limit values that require monitoring at the workplace:</b>	
<b>1344-28-1 aluminium oxide</b>	
PEL	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction, A4
<b>1317-65-3 Limestone</b>	
PEL	Long-term value: 15 mg/m <sup>3</sup>
TLV	Long-term value: 10 mg/m <sup>3</sup>
<b>1332-58-7 Kaolin</b>	
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 2* mg/m <sup>3</sup> E; as respirable fraction, A4
<b>557-05-1 zinc distearate, pure</b>	
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 10* 3** mg/m <sup>3</sup> *inhalable, **respirable particulate matter, *A4
<b>15096-52-3 cryolite</b>	
PEL	Long-term value: 2.5 mg/m <sup>3</sup> as F
REL	Long-term value: 2.5 mg/m <sup>3</sup> as F

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

**Product name: Aluminum Oxide Abrasive Belts**

(Contd. of page 3)

<b>107-21-1 ethylene glycol</b>	
TLV	Short-term value: 10** mg/m <sup>3</sup> , 50* ppm Long-term value: 25* ppm *vapor fraction:**inh. fraction, aerosol only, A4
WEEL	I (2)
<b>1309-37-1 diiron trioxide</b>	
PEL	Long-term value: 10* mg/m <sup>3</sup> *Fume
REL	Long-term value: 5 mg/m <sup>3</sup> Dust & fume, as Fe
TLV	Long-term value: 5* mg/m <sup>3</sup> *as respirable fraction, A4
<b>7778-18-9 calcium sulphate, natural</b>	
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 10* mg/m <sup>3</sup> *as inhalable fraction
<b>14075-53-7 potassium tetrafluoroborate</b>	
PEL	Long-term value: 2.5 mg/m <sup>3</sup> as F
REL	Long-term value: 2.5 mg/m <sup>3</sup> as F
TLV	Long-term value: 2.5 mg/m <sup>3</sup> as F, A4; BEI
<b>· Ingredients with biological limit values:</b>	
<b>15096-52-3 cryolite</b>	
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)
<b>14075-53-7 potassium tetrafluoroborate</b>	
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)

· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

(Contd. on page 5)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

**Product name: Aluminum Oxide Abrasive Belts**

(Contd. of page 4)

- **Breathing equipment:**  
Not required.  
Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Not required.
- **Eye protection:** Not required.

### 9 Physical and chemical properties

· <b>Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Belt
· <b>Color:</b>	According to product specification
· <b>Odor:</b> Odorless	
· <b>Odor threshold:</b> Not determined.	
· <b>pH-value:</b> Not applicable.	
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flash point:</b> Not applicable.	
· <b>Flammability (solid, gaseous):</b> Not determined.	
· <b>Decomposition temperature:</b> Not determined.	
· <b>Auto igniting:</b> Product is not selfigniting.	
· <b>Danger of explosion:</b> Product does not present an explosion hazard.	
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b> Not applicable.	
· <b>Density:</b> Not determined.	
· <b>Relative density</b> Not determined.	
· <b>Vapor density</b> Not applicable.	
· <b>Evaporation rate</b> Not applicable.	
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b> Not determined.	
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not applicable.
· <b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
· <b>VOC content:</b>	1.47 %
· <b>Solids content:</b> 100.0 %	
· <b>Other information</b> 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.

(Contd. on page 6)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

**Product name: Aluminum Oxide Abrasive Belts**

(Contd. of page 5)

- **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	6,803 mg/kg
Inhalative	LC50/4 h	22.7 mg/l

#### 1344-28-1 aluminium oxide

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>6 mg/l (rat)

#### 1317-65-3 Limestone

Oral	LD50	6,450 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	3 mg/l (rat)

#### 557-05-1 zinc distearate, pure

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

#### 15096-52-3 cryolite

Inhalative	LC50/4 h	1.5 mg/l (ATE)
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#### 107-21-1 ethylene glycol

Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	9,430 mg/kg (rabbit)

#### 1309-37-1 diiron trioxide

Oral	LD50	>5,000 mg/kg (rat)
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#### 14075-53-7 potassium tetrafluoroborate

Oral	LD50	100 mg/kg (ATE)
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- **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

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1309-37-1	diiron trioxide	3
14075-53-7	potassium tetrafluoroborate	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

(Contd. on page 7)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

Product name: Aluminum Oxide Abrasive Belts

(Contd. of page 6)

### 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:**  
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.  
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.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· <b>UN-Number</b> · <b>DOT, ADN, IMDG, IATA</b>	not regulated
· <b>UN proper shipping name</b> · <b>DOT, ADN, IMDG, IATA</b>	not regulated
· <b>Transport hazard class(es)</b> · <b>DOT, ADN, IMDG, IATA</b> · <b>Class</b>	not regulated
· <b>Packing group</b> · <b>DOT, IMDG, IATA</b>	not regulated
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	not regulated

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **Sara**

#### · **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

(Contd. on page 8)

# Safety Data Sheet

*acc. to OSHA HCS*

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

**Product name: Aluminum Oxide Abrasive Belts**

(Contd. of page 7)

· <b>Section 313 (Specific toxic chemical listings):</b>	
1344-28-1	aluminium oxide
557-05-1	zinc distearate, pure
107-21-1	ethylene glycol
· <b>TSCA (Toxic Substances Control Act):</b>	
All components have the value ACTIVE.	
· <b>Hazardous Air Pollutants</b>	
107-21-1	ethylene glycol
· <b>Proposition 65</b>	
· <b>Chemicals known to cause cancer:</b>	
None of the ingredients is listed.	
· <b>Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	
· <b>Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	
· <b>Chemicals known to cause developmental toxicity:</b>	
107-21-1	ethylene glycol
· <b>Chemical safety assessment:</b> 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:** Technical Services
- **Contact:** Pablo Mendoza
- **Last revision / supersedes version:** 06/01/2022 / 2.1
- **Supersedes date:** 06/11/2020
- **Abbreviations and acronyms:**
  - ADR: Accord relatif au transport international 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
  - 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 Toxicity - Oral 3: Acute toxicity – Category 3
  - Acute Toxicity - Inhalation 4: Acute toxicity – Category 4
  - Skin Irritation 2: Skin corrosion/irritation – Category 2
  - Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
  - 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.**