



Safety Data Sheet
acc. to OSHA HCS

Printing date 06/10/2020

Version 3.1

Last revision 06/10/2020

1 Identification

- Product name: Colloidal Silica/Alumina Polishing Solution, 0.05 micron
Part number: 180-70000, 180-70010, 180-70015
Application of the substance / the mixture Polishing solution
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

\* 3 Composition/information on ingredients

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

Hazardous components and components with occupational exposure limits:

Table with 3 columns: CAS number, Component name, and Exposure limit. Rows include silicon dioxide, propylene glycol, and aluminium oxide.

Non-hazardous components:

Table with 2 columns: Component name and Exposure limit. Rows include Proprietary Ingredient and Dye.

Additional information:

May contain water.
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
General information: No special measures required.

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- **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:**  
Alcohol resistant foam  
Carbon dioxide  
Fire-extinguishing powder  
Water spray  
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:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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.  
No special requirements.
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.  
Store away from foodstuffs.
- **Further information about storage conditions:** None.
- **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>7631-86-9 silicon dioxide, chemically prepared</b>                         |
| PEL   Long-term value: 6 mg/m <sup>3</sup>                                    |

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|                                  |  |
|----------------------------------|--|
| TLV                              | Long-term value: 10 mg/m <sup>3</sup>  |
| <b>57-55-6 propylene glycol</b>  |  |
| WEEL                             | Long-term value: 10 mg/m <sup>3</sup>  |
| <b>1344-28-1 aluminium oxide</b> |  |
| PEL                              | Long-term value: 15*; 5** mg/m <sup>3</sup><br>*Total dust; ** Respirable fraction               |
| REL                              | Long-term value: 10* 5** mg/m <sup>3</sup><br>as Al*Total dust**Respirable/pyro powd./welding f. |
| TLV                              | Long-term value: 1* mg/m <sup>3</sup><br>as Al; *as respirable fraction                          |

- **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:** Not required.
- **Material of gloves:** Nitrile rubber, NBR
- **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:** Goggles recommended during refilling.

## \* 9 Physical and chemical properties

|  |   |
|--|---|
| · <b>Information on basic physical and chemical properties</b> |   |
| · <b>General Information</b>                                   |   |
| · <b>Appearance:</b>   |   |
| <b>Form:</b>   | Solution                                      |
| <b>Color:</b>  | Light blue                                    |
| · <b>Odor:</b>   | Odorless                                      |
| · <b>Odor threshold:</b>                                       | Not determined.                               |
| · <b>pH-value:</b>   | Not determined.                               |
| · <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 applicable.                               |
| · <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 determined.                               |
| · <b>Density:</b>  | Not determined.                               |
| · <b>Relative density</b>                                      | Not determined.                               |
| · <b>Vapor density</b>   | Not determined.                               |
| · <b>Evaporation rate</b>                                      | Not determined.                               |

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|   |  |
|---|--|
| · <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                            |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                   | Not determined.                            |
| <b>Kinematic:</b>                                 | Not determined.                            |
| · <b>Solvent content:</b>                         |  |
| <b>Organic solvents:</b>                          | 11.0 %                                     |
| <b>VOC content:</b>                               | 11.03 %                                    |
| · <b>Solids content:</b>                          | 33.1 %                                     |
| · <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.
- **Conditions to avoid**  
Excessive heat  
Keep away from oxidising agents and acidic substances.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Nitrogen oxides  
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 | >5000 mg/kg (rat)     |
| Dermal | LD50 | >9,067 mg/kg (rabbit) |

#### 7631-86-9 silicon dioxide, chemically prepared

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 7,000 mg/kg (mouse)   |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |

#### 57-55-6 propylene glycol

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | >2,000 mg/kg (rat)    |
| Dermal | LD50 | 20,800 mg/kg (rabbit) |

#### 1344-28-1 aluminium oxide

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >5,000 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

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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**

|  |                                      |
|--|--------------------------------------|
| · <b>IARC (International Agency for Research on Cancer)</b>        |                                      |
| 7631-86-9  | silicon dioxide, chemically prepared |
| · <b>NTP (National Toxicology Program)</b>                         |                                      |
| None of the ingredients is listed.                                 |                                      |
| · <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b> |                                      |
| None of the ingredients is listed.                                 |                                      |

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** Not easily biodegradable

- **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.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

|  |                 |
|--|-----------------|
| · <b>UN-Number</b><br>· <b>DOT, IMDG, IATA</b>   | not regulated   |
| · <b>UN proper shipping name</b><br>· <b>DOT, IMDG, IATA</b>                           | not regulated   |
| · <b>Transport hazard class(es)</b><br>· <b>DOT, ADN, IMDG, IATA</b><br>· <b>Class</b> | not regulated   |
| · <b>Packing group</b><br>· <b>DOT, IMDG, IATA</b>                                     | not regulated   |
| · <b>Environmental hazards:</b><br>· <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. |

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|                                 |               |
|---------------------------------|---------------|
| <b>· UN "Model Regulation":</b> | not regulated |
|---------------------------------|---------------|

### \* 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

|  |                                    |
|--|------------------------------------|
| <b>· Section 355 (extremely hazardous substances):</b> | None of the ingredients is listed. |
|--|------------------------------------|

|  |                                    |
|--|------------------------------------|
| <b>· Section 313 (Specific toxic chemical listings):</b> | None of the ingredients is listed. |
|--|------------------------------------|

|           |                 |
|-----------|-----------------|
| 1344-28-1 | aluminium oxide |
|-----------|-----------------|

|   |                                    |
|---|------------------------------------|
| <b>· TSCA (Toxic Substances Control Act):</b> | None of the ingredients is listed. |
|---|------------------------------------|

|                                       |  |
|---------------------------------------|--|
| All components have the value ACTIVE. |  |
|---------------------------------------|--|

|                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>· Hazardous Air Pollutants</b> | None of the ingredients is listed. |
|-----------------------------------|------------------------------------|

|                         |                                    |
|-------------------------|------------------------------------|
| <b>· Proposition 65</b> | None of the ingredients is listed. |
|-------------------------|------------------------------------|

|   |                                    |
|---|------------------------------------|
| <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> | 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

- **Last revision / supersedes version:** 06/10/2020 / 3.0

- **Supersedes date:** 04/28/2020

- **Abbreviations and acronyms:**

- 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

- \* **Data compared to the previous version altered.**