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# Safety Data Sheet acc. to OSHA HCS

Printing date 07/02/2024 Version 4.0 Last revision 06/01/2024

### \* 1 Identification

· Product name: Colloidal Alumina Suspension, 0.03 micron (Undiluted)

· Part number: 180-80000, 180-80010, 180-80015

- · Application of the substance / the mixture Polishing solution
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Allied High Tech Products Inc.

16207 Carmenita Road

USA-Cerritos, CA, 90703

**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:	
1344-28-1 aluminium oxide	15-25%
· Non-hazardous components:	
7732-18-5 water, distilled, conductivity or of similar purity	75-85%

• Additional information: 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.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- $\cdot$  After skin contact: Generally the product does not irritate the skin.
- · After eve contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

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- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

Eve 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: No special measures required.
- · 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 necessary.
- · 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:

Use polyolefine receptacles.

Unsuitable material for receptacle: steel.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Protect from frost.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No additional data. See 7.
- · Control parameters

# Components with limit values that require monitoring at the workplace: 1344-28-1 aluminium oxide 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

- · 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.

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· Protection of hands: Not required.

· Material of gloves

Recommended thickness of the material:  $\geq 0.4$  mm

Nitrile rubber, NBR

- Penetration time of glove material Break through time: >10 min.
   Eye protection: Goggles recommended during refilling.

# 9 Physical and chemical properties

· Information on basic physical and chemical properties · General Information		
· Appearance: Form: Color: · Odor: · Odor threshold:	Suspension White Odorless Not determined.	
· pH-value at 20 °C (68 °F):	4	
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
<ul><li>Density:</li><li>Relative density</li><li>Vapor density</li><li>Evaporation rate</li></ul>	Not determined. Not determined. Not determined. Not determined. Not determined.	
· Solubility in / Miscibility with Water:	Fully miscible.	
· Partition coefficient (n-octanol/water	): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: Water: VOC content:	68.2-77.3 % 0.00 %	
Solids content:	20.0 %	
· Other information	No further relevant information available.	

# 10 Stability and reactivity

· Reactivity No further relevant information available.

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- · 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 Freezing conditions
- · 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:

#### 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 skin irritant

Abrasive eye 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)

None of the ingredients is listed.

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

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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	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  Not applicable.		
· UN "Model Regulation":	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.

· Section 313 (Specific toxic chemical listings):

1344-28-1 aluminium oxide

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

- · 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.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, it does not describe a guarantee of product properties and does not establish a contractual legal relationship.

- · Department issuing SDS: Technical Services
- · Contact: Pablo Mendoza
- · Last revision / supersedes version: 06/01/2024 / 3.0

Product name: Colloidal Alumina Suspension, 0.03 micron (Undiluted)

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· Supersedes date: 06/01/2022

· 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

\* Data compared to the previous version altered.