

acc. to OSHA HCS

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Version 4.0 Last revision 06/01/2024

* 1 Identification

Printing date 07/02/2024

· Product name: FinalPrep Alumina Polishing Solution, De-Agglomerated, 0.05 micron

· Part number: 90-187705, 90-187725, 90-187740, 90-187775

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

Allied High Tech Products Inc.

iigh tech probuct

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



Skin Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

· Precautionary statements

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

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Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention.

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		30-40%			
1310-58-3	potassium hydroxide	Skin Corrosion 1A, H314; Acute Toxicity - Oral 4, H302	0.5-≤1%			
· Non-hazardous components:						
Proprietary Ingredient						

[·] 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: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders

Dermatitis

Eye irritation

· 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: 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 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.

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- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · 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-	1344-28-1 aluminium oxide		
	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction		
	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.		
	Long-term value: 1* mg/m³ as Al; *as respirable fraction, A4		
1310-58-3 potassium hydroxide			
REL	Ceiling limit value: 2 mg/m³		
TLV	Ceiling limit value: 2 mg/m³		

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

wash hands before breaks and at the end

Avoid contact with the eyes and skin.

· Breathing equipment:

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

Neoprene gloves

PVC 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.

· Eye protection:



Tightly sealed goggles

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9 Physical and chemical properties

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· Information on basic physical and chemical properties · General Information · Appearance:					
Form:	Solution				
Color:	Whitish				
· Odor:	Odorless				
· Odor threshold:	Not determined.				
· pH-value at 20 °C (68 °F):	>7				
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	>2,000 °C (>35.600 °F) (Al2O3 powder) >2,900 °C (>37.200 °F) (Al2O3 powder)				
· 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:	Not determined.				
Upper:	Not determined.				
· Vapor pressure:	Not determined.				
Density:	Not determined.				
Relative density	Not determined.				
· Vapor density	Not determined.				
· Evaporation rate	Not determined.				
· Solubility in / Miscibility with					
Water:	Dispersible.				
· Partition coefficient (n-octanol/water): Not determined.					
· Viscosity:					
Dynamic:	Not determined.				
Kinematic:	Not determined.				
· Solvent content:					
VOC content:	0.00 %				
	0.0 g/l / 0.00 lb/gal				
Solids content:	100.0 %				
· Other information	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 Strong exothermic reaction with acids.
- Conditions to avoid Keep away from acids.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Toxic metal compounds

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

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. TD/TC20	varues	шаі	are i	eievani	l IOF	classification:

1344-28-1 aluminium oxide

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

1310-58-3 potassium hydroxide

Oral LD50 273 mg/kg (rat)

- Primary chemical irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eve: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · 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:

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

- · UN-Number
- · DOT, ADN, IMDG, IATA

not regulated

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· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated		
· Transport hazard class(es)			
·DOT			
· Class	not regulated		
· Label	-		
· ADN/R 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.
- · 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 / 3.1
- · Supersedes date: 06/01/2022

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· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by

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

Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

* Data compared to the previous version altered.