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Safety Data Sheet acc. to OSHA HCS

Printing date 04/05/2016

Reviewed on 04/05/2016

1 Identification

• Product name: Alumina Polishing Suspension, De-agglomerated, 0.05 micron and High Purity, Deagglomerated 0.05 - 5 micron

• **Part number:** 90-187505, -187540, -187575 90-187506, -187511, -187516, -187521, -187526

· 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
- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH1Health = 1FIRE \circ Fire = 0REACTIVITY \circ Reactivity = 0

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- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

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

· Hazardous Components:					
57-55-6	propylene glycol	🚸 Acute Tox. 4, H302	10-<25%		
1344-28-1	aluminium oxide		10-<25%		
· Non-hazardous Components:					
Proprietary Ingredient					

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.
- · 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 Coughing

Breathing difficulty

• *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: 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.

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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.
- · Information about storage in one common storage facility: Not required.
- 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

· Components with limit values that require monitoring at the workplace:

57-55-6 propylene glycol

WEEL Long-term value: 10 mg/m³

1344-28-1 aluminium oxide

PEL Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction

REL Long-term value: $10*5**mg/m^3$

as Al*Total dust**Respirable/pyro powd./welding f.

- TLV Long-term value: $1* mg/m^3$
 - as Al; *as respirable fraction

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · 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.

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9 Physical and chemical properties					
• Information on basic physical and chemical properties • General Information					
· Appearance: Form:	Suspension				
Form: Color:	Whitish				
· Odor:	Odorless				
· Odor threshold:	Not determined.				
· pH-value:	Not determined.				
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.				
· Flash point:	Not applicable.				
· Flammability (solid, gaseous):	Not applicable.				
· Ignition temperature:					
Decomposition temperature:	Not determined.				
· Auto igniting:	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: 	Fully miscible.				
Partition coefficient (n-octanol/water): Not determined.					
· Viscosity:					
Dynamic:	Not determined.				
Kinematic:	Not determined.				
· Solvent content:					
Organic solvents:	12.5 %				
VOC content:	12.5 %				
	125.0 g/l / 1.04 lb/gl				
Solids content:	87.5 %				
• 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 Keep away from heat. Keep away from oxidising agents and acidic substances. Keep away from open flames. - No smoking.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 16000 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

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 Not easily biodegradable
- · Behavior in environmental systems:
- · Bioaccumulative potential Non significant accumulation in organisms
- · 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.

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- · 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.

· 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 1	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot 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):	
57-55-6 propylene glycol	
1344-28-1 aluminium oxide	
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· 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

· 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 04/05/2016 / -

• 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