

Page 1/8

# Safety Data Sheet acc. to OSHA HCS

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

# **1** Identification

- · Product name: Diamond Slurry, Polycrystalline, 0.05 and 0.1 microns
- · Part number: 90-22995-S 90-23000-S
- · Application of the substance / the mixture Polishing solution
- $\cdot$  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



Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

Sensitization - Skin 1	H317 May cause an allergic skin reaction.

Flammable Liquids 4 H227 Combustible liquid.

· Label elements

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

· Hazard pictograms



· Signal word Warning

- Hazard-determining components of labeling: Fumd Silica, Crystalline Free mequinol
- Hazard statements Combustible liquid. Harmful if inhaled. May cause an allergic skin reaction.

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

## Product name: Diamond Slurry, Polycrystalline, 0.05 and 0.1 microns

(Contd. of page 1)

Precautionary statements
Keep away from flames and hot surfaces. – No smoking.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

# **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:		
112945-52-5	Fumd Silica, Crystalline Free	1-5%	
	Acute Toxicity - Inhalation 3, H331		
150-76-5	mequinol	0.1-<1%	
	Acute Toxicity - Oral 4, H302; Eye Irritation 2A, H319; Sensitization - Skin 1, H317		
111-76-2	ethylene glycol monobutyl ether	≤1%	
	Acute Toxicity - Dermal 3, H311; Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Skin Irrititation 2, H315; Eye Irritation 2A, H319; Flammable Liquids 4, H227		
Non-hazard	ous components:		
9038-95-3 p	oolyalkylene glycol monobutyl ether	90-100%	
I	ubricant	1-5%	
7782-40-3 I	2-40-3 Diamond ≤10		

· 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:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation:
- Supply fresh air and to be sure call for a doctor.

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.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed
- Gastric or intestinal disorders
- Breathing difficulty
- Coughing
- Allergic reactions
- Dermatitis

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

## Product name: Diamond Slurry, Polycrystalline, 0.05 and 0.1 microns

(Contd. of page 2)

# 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: Wear fully protective suit.

# 6 Accidental release measures

 $\cdot$  Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Keep away from ignition sources

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water. Prevent seepage into sewage system, workpits and cellars.

Dilute with plenty of water.

 $\cdot$  Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

• 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

Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

- · 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:
- Keep receptacle tightly sealed.

Store receptacle in a well ventilated area.

• 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

· Comp	· Components with limit values that require monitoring at the workplace:		
112945-52-5 Fumd Silica, Crystalline Free			
TWA	TWA Long-term value: 0.8 mg/m <sup>3</sup>		
150-70	150-76-5 mequinol		
REL	Long-term value: 5 mg/m <sup>3</sup>		
TLV	Long-term value: 5 mg/m <sup>3</sup>		

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

## Product name: Diamond Slurry, Polycrystalline, 0.05 and 0.1 microns

	(Contd. of page	e 3)
111-7	76-2 ethylene glycol monobutyl ether	
PEL	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin	
REL	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin	
TLV	Long-term value: 20 ppm BEI, A3	
·Ingre	edients with biological limit values:	
111-7	76-2 ethylene glycol monobutyl ether	
BEI	200 mg/g creatinine	
	Medium: urine	
'	Time: end of shift	I
]	Parameter: Butoxyacetic acid (BAA) (with hydrolysis)	

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Breathing equipment: Use suitable respiratory protective device when high concentrations are present.
- 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

Butyl rubber, BR

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: Goggles recommended during refilling.

#### 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Solution Color: Yellowish · Odor: Mild Not determined. · Odor threshold: · pH-value: Not determined. · Change in condition Melting point/Melting range: -9.4 °C (15.1 °F) **Boiling point/Boiling range:** 171.1 °C (340 °F) · Flash point: 90 °C (194 °F) · Flammability (solid, gaseous): Not applicable. · Decomposition temperature: Not determined. Product is not selfigniting. • Auto igniting: (Contd. on page 5)

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

(Contd. of page 4)

## Product name: Diamond Slurry, Polycrystalline, 0.05 and 0.1 microns

(contail of page 1		
Not determined.		
Not determined.		
≥1		
Not determined.		
Not miscible or difficult to mix.		
· Partition coefficient (n-octanol/water): Not determined.		
Not determined.		
Not determined.		
0.2 %		
0.19 %		
97.6 %		
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

Alkaline earth metals

Keep away from oxidising agents and acidic substances.

Excessive heat

- · 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 (Acu	ATE (Acute Toxicity Estimate)		
Dermal	LD50	215,750 mg/kg (rabbit)	
Inhalative	LC50/4 h	>14.9 mg/l (rat)	
112945-52	112945-52-5 Fumd Silica, Crystalline Free		
Oral	LD50	>5,110 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	>0.691 mg/l (rat)	
150-76-5 1	150-76-5 mequinol		
Oral	LD50	1,600 mg/kg (rat)	

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

## Product name: Diamond Slurry, Polycrystalline, 0.05 and 0.1 microns

			(Contd. of page 5)
	LD50	5,010 mg/kg (rat)	
111-76-2 6	111-76-2 ethylene glycol monobutyl ether		
Oral	LD50	1,200 mg/kg (ATE)	
		1,480 mg/kg (rat)	
Dermal	LD50	400 mg/kg (rabbit)	
Inhalative	LC50/4 h	h 2.2 mg/l (rat)	
		irritant effect:	
• on the ski			
	• on the eye: No irritating effect. • Sensitization: Sensitization possible through skin contact.		
	· Additional toxicological information:		
	· Carcinogenic categories		
	· IARC (International Agency for Research on Cancer)		
111-76-2	111-76-2   ethylene glycol monobutyl ether   3		
· NTP (Nat	• NTP (National Toxicology Program)		
None of th	None of the ingredients is listed.		
· OSHA-Ca	(Occupa	oational Safety & Health Administration)	
None of th	e ingredie	ients is listed.	
12 Ecologic	al inform	rmation	
· Toxicity			
· Aquatic to	oxicity:		
111-76-2 €	ethylene g	glycol monobutyl ether	

EC50 (48 h) (static) 1,550 mg/l (daphnia)

• 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.

# 14 Transport information • UN-Number • DOT, ADN, IMDG, IATA • UN proper shipping name • DOT, ADN, IMDG, IATA not regulated

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

. 1

## Product name: Diamond Slurry, Polycrystalline, 0.05 and 0.1 microns

		(Contd. of page 6)
· 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 M	ARPOL73/78 and	
the IBC Code	Not applicable.	
· UN "Model Regulation":	not regulated	
5 Descriptions information		

## **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):	
111-76-2 ethylene glycol monobutyl ether	
· 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

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: 06/09/2020
- · 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

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

## Product name: Diamond Slurry, Polycrystalline, 0.05 and 0.1 microns

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 Flammable Liquids 4: Flammable liquids - Category 4 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Acute Toxicity - Inhalation 3: Acute toxicity - Category 3 Skin Irrititation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Skin 1: Skin sensitisation - Category 1

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

(Contd. of page 7)