

Safety Data Sheet acc. to OSHA HCS

Printing date 07/02/2024

Version 7.0

Last revision 06/01/2024

* 1 Identification

- **Product name:** Diamond Compound
- **Part number:** 90-20995-S - 90-21105
- **Application of the substance / the mixture**
Abrasive
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**



Eye Irritation 2A H319 Causes serious eye irritation.
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- **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:**
mequinol
- **Hazard statements**
Causes serious eye irritation.
May cause an allergic skin reaction.
- **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray

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- Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves / eye protection / face protection.
 If on skin: Wash with plenty of water.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If skin irritation or rash occurs: Get medical advice/attention.
 Specific treatment (see on this label).
 If eye irritation persists: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 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 ⚠ Acute Toxicity - Inhalation 3, H331	5-10%
111-76-2	ethylene glycol monobutyl ether ⚠ Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; ⚠ Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Flammable Liquids 4, H227	<0.2%
150-76-5	mequinol ⚠ Acute Toxicity - Oral 4, H302; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	<0.2%
· Non-hazardous components:		
9038-95-3	polyalkylene glycol monobutyl ether	60-95%
7782-40-3	Diamond	<30%
9005-65-6	Lubricant	1-5%

- **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**
- **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. 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**
Allergic reactions
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.

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- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
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).
Dispose contaminated material as waste according to section 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**
Ensure proper ventilation/exhaustion at workplaces.
Prevent formation of aerosols.
- **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:** Keep away from alkaline solutions.
- **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 additional data. See 7.
- **Control parameters**

Components with limit values that require monitoring at the workplace:	
112945-52-5 Fumd Silica, Crystalline Free	
TWA	Long-term value: 0.8 mg/m ³
111-76-2 ethylene glycol monobutyl ether	
PEL	Long-term value: 240 mg/m ³ , 50 ppm Skin
REL	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV	Long-term value: 20 ppm BEI, A3
150-76-5 mequinol	
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³
Ingredients with biological limit values:	
111-76-2 ethylene glycol monobutyl ether	
BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid (BAA) (with hydrolysis)

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- **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.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **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:**



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
· Form:	Pasty
· Color:	According to product specification
· Odor:	Mild
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
· Melting point/Melting range:	-65 °C (-85 °F)
· Boiling point/Boiling range:	200 °C (392 °F)
· Flash point:	101.7 °C (215.1 °F)
· 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.

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· Relative density	Not determined.
· Vapor density	9.3
· Specific gravity:	0.971 (Water = 1)
· 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:	0.1 %
VOC content:	0.14 %
Solids content:	96.3 %
· 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** No dangerous reactions known.
- **Conditions to avoid**
Keep away from oxidising agents and acidic substances.
Keep away from alkaline solutions.
Keep away from heat.
Keep away from open flames. - No smoking.
- **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 (Acute Toxicity Estimate)		
Dermal	LD50	285,714 mg/kg (rabbit)
Inhalative	LC50/4 h	>9.6 mg/l
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)
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	3 mg/l (ATE) 2.2 mg/l (rat)

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150-76-5 mequinol		
Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	5,010 mg/kg (rat)
<ul style="list-style-type: none"> · Primary chemical irritant effect: · on the skin: No irritant effect. · on the eye: Irritating effect. · Sensitization: Sensitization possible through skin contact. · Additional toxicological information: · Carcinogenic categories 		
<ul style="list-style-type: none"> · IARC (International Agency for Research on Cancer) 		
111-76-2	ethylene glycol monobutyl ether	3
<ul style="list-style-type: none"> · NTP (National Toxicology Program) 		
None of the ingredients is listed.		
<ul style="list-style-type: none"> · OSHA-Ca (Occupational Safety & Health Administration) 		
None of the ingredients is listed.		

12 Ecological information

<ul style="list-style-type: none"> · Toxicity
<ul style="list-style-type: none"> · Aquatic toxicity:
111-76-2 ethylene glycol monobutyl ether
EC50 (48 h) (static) 1,550 mg/l (daphnia)
<ul style="list-style-type: none"> · 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.
<ul style="list-style-type: none"> · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. · Other adverse effects No further relevant information available.

13 Disposal considerations

<ul style="list-style-type: none"> · 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

<ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA 	UN3287
<ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG, IATA 	Toxic liquid, inorganic, n.o.s. (Fumd Silica, Crystalline Free, ethylene glycol monobutyl ether) TOXIC LIQUID, INORGANIC, N.O.S. (Fumd Silica, Crystalline Free, ethylene glycol monobutyl ether)

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<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	
<ul style="list-style-type: none"> · Class · Label 	6.1 Toxic substances 6.1
<ul style="list-style-type: none"> · IMDG, IATA 	
<ul style="list-style-type: none"> · Class · Label 	6.1 Toxic substances 6.1
<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA 	III
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category · Stowage Code 	Warning: Toxic substances 60 F-A,S-A A SW2 Clear of living quarters.
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · DOT · Quantity limitations · Limited quantities (LQ) · Transport category · Tunnel restriction code 	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L 5L 2 E
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (FUMD SILICA, CRYSTALLINE FREE, ETHYLENE GLYCOL MONOBUTYL ETHER), 6.1, III

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.

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· 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

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 / 6.0
- **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
 - BEL: 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 Irritation 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.**