

Safety Data Sheet acc. to OSHA HCS

Printing date 06/01/2022

Version 3.0

Last revision 06/01/2022

1 Identification

- **Product name:** Black Glass-Filled Epoxy Powder, Non-stick
- **Part number:** 150-10105 - 150-10110
- **Application of the substance / the mixture** Thermoset molding
- **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**



GHS08 Health hazard

Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carcinogenicity 1A H350 May cause cancer.



GHS05 Corrosion

Eye Damage 1 H318 Causes serious eye damage.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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

Aquatic Acute 2 H401 Toxic to aquatic life.

Combustible Dust May form combustible dust concentrations in air.

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- **Label elements**

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

- **Hazard pictograms**



GHS05 GHS08 GHS09

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Quartz (SiO₂)
tetrachlorophthalic anhydride
Carbon black
hexachlorobenzene

- **Hazard statements**

Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause cancer.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.
May form combustible dust concentrations in air.

- **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
[In case of inadequate ventilation] wear respiratory protection.
If on skin: Wash with plenty of water.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If experiencing respiratory symptoms: Call a poison center/doctor.
Wash contaminated clothing before reuse.
Collect spillage.
Store locked up.
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:**

14808-60-7	Quartz (SiO ₂) ⚠ Carcinogenicity 1A, H350	50-60%
117-08-8	tetrachlorophthalic anhydride ⚠ Sensitization - Respiratory 1, H334; ⚠ Eye Damage 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Sensitization - Skin 1, H317	5-10%

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557-05-1	zinc distearate, pure		1-5%
1333-86-4	Carbon black		1-5%
	⚠ Self-heating substances and mixtures 2, H252; ⚠ Carcinogenicity 2, H351		
2421-28-5	benzophenone-3,3',4,4'-tetracarboxylic dianhydride		1-5%
	⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335		
118-74-1	hexachlorobenzene		0.25-≤1%
	⚠ Carcinogenicity 1B, H350; Specific Target Organ Toxicity - Repeated Exposure 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410		
1344-95-2	Silicic acid, calcium salt		≤1%
111-90-0	Diethylene glycol monoethyl ether		≤1%
	Flammable Liquids 4, H227		
· Non-hazardous components:			
25036-25-3	Alkyl phenol polyether		20-30%
65997-17-3	Fibrous Glass		5-10%
68476-03-9	Montan wax acids		≤1%
136-53-8	Ethylhexanoic acid zinc salt	⚠ Flammable Liquids 3, H226	≤1%

· Additional information:

Mixture contains a higher quartz and carbon black content than standard Epoxy Powder.

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. Then consult a doctor.**· After swallowing:** If symptoms persist consult doctor.**· Information for doctor:****· Most important symptoms and effects, both acute and delayed**

Breathing difficulty

Coughing

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:** Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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- **Methods and material for containment and cleaning up:**
Use neutralizing agent.
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**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **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.
- **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**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

14808-60-7 Quartz (SiO₂)	
PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *respirable particulate matter, A2
557-05-1 zinc distearate, pure	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 10* 3** mg/m ³ *inhalable, **respirable particulate matter, *A4
1333-86-4 Carbon black	
PEL	Long-term value: 3.5 mg/m ³
REL	Long-term value: 3.5* mg/m ³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C

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TLV	Long-term value: 3* mg/m ³ *inhalable fraction, A3
118-74-1 hexachlorobenzene	
TLV	Long-term value: 0.002 mg/m ³ Skin, A3
1344-95-2 Silicic acid, calcium salt	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	synthetic nonfibrous: TLV withdrawn, see App. B
111-90-0 Diethylene glycol monoethyl ether	
WEEL	Long-term value: 25 ppm

- **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.

Store protective clothing separately.

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:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



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**

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: Powder

Color: Black

- **Odor:** Mild

- **Odor threshold:** Not determined.

- **pH-value:** Not applicable.

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· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· 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 applicable.
· Density at 20 °C (68 °F):	1.6 g/cm ³ (13.352 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
VOC content:	0.01 %
Solids content:	98.6 %
· 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.
Do not mix with alkalis.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
At elevated temperatures: phenol, formaldehyde, alkyl phenols and aromatic hydrocarbons may be generated.
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:		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

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117-08-8 tetrachlorophthalic anhydride		
Oral	LD50	15,800 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
557-05-1 zinc distearate, pure		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
1333-86-4 Carbon black		
Oral	LD50	10,000 mg/kg (rat)
111-90-0 Diethylene glycol monoethyl ether		
Oral	LD50	5,500 mg/kg (rat)
Dermal	LD50	8,500 mg/kg (rabbit)

- **Primary chemical irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:**
Sensitization possible through inhalation.
Sensitization possible through skin contact.
- **Additional toxicological information:**
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
14808-60-7	Quartz (SiO ₂)	1
1333-86-4	Carbon black	2B
118-74-1	hexachlorobenzene	2B

· NTP (National Toxicology Program)		
14808-60-7	Quartz (SiO ₂)	K
118-74-1	hexachlorobenzene	R

· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

- **Toxicity**

· Aquatic toxicity:		
117-08-8 tetrachlorophthalic anhydride		
EC50 (48 h)	104 mg/l (daphnia)	
LC50 (96 h)	106 mg/l (oncorhynchus mykiss)	
ErC50(72h) (static)	84 mg/l (pseudokirchneriella subcapitata)	

- **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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

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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.

14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, ADN, IMDG, IATA 	not regulated
<ul style="list-style-type: none"> · UN proper shipping name · DOT, ADN, IMDG, IATA 	not regulated
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADN, IMDG, IATA · Class 	not regulated
<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA 	not regulated
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · Special precautions for user 	Not applicable.
<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"> · UN "Model Regulation": 	not regulated

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

<ul style="list-style-type: none"> · Section 355 (extremely hazardous substances): 	None of the ingredients is listed.						
<ul style="list-style-type: none"> · Section 313 (Specific toxic chemical listings): 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; font-size: small;">557-05-1</td> <td>zinc distearate, pure</td> </tr> <tr> <td style="font-size: small;">118-74-1</td> <td>hexachlorobenzene</td> </tr> <tr> <td style="font-size: small;">111-90-0</td> <td>Diethylene glycol monoethyl ether</td> </tr> </table>	557-05-1	zinc distearate, pure	118-74-1	hexachlorobenzene	111-90-0	Diethylene glycol monoethyl ether
557-05-1	zinc distearate, pure						
118-74-1	hexachlorobenzene						
111-90-0	Diethylene glycol monoethyl ether						
<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act): 	All components have the value ACTIVE.						
<ul style="list-style-type: none"> · Hazardous Air Pollutants 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; font-size: small;">118-74-1</td> <td>hexachlorobenzene</td> </tr> </table>	118-74-1	hexachlorobenzene				
118-74-1	hexachlorobenzene						
<ul style="list-style-type: none"> · Proposition 65 	<ul style="list-style-type: none"> · Chemicals known to cause cancer: 						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; font-size: small;">14808-60-7</td> <td>Quartz (SiO₂)</td> </tr> <tr> <td style="font-size: small;">1333-86-4</td> <td>Carbon black</td> </tr> <tr> <td style="font-size: small;">118-74-1</td> <td>hexachlorobenzene</td> </tr> </table>	14808-60-7	Quartz (SiO ₂)	1333-86-4	Carbon black	118-74-1	hexachlorobenzene	
14808-60-7	Quartz (SiO ₂)						
1333-86-4	Carbon black						
118-74-1	hexachlorobenzene						

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· 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:	
118-74-1	hexachlorobenzene

· National regulations:

· Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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: 06/16/2020

· 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

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

Flammable Liquids 4: Flammable liquids – Category 4

Self-heating substances and mixtures 2: Self-heating substances and mixtures – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

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

Sensitization - Respiratory 1: Respiratory sensitisation – Category 1

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 1A: Carcinogenicity – Category 1A

Carcinogenicity 1B: Carcinogenicity – Category 1B

Carcinogenicity 2: Carcinogenicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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