

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/02/2024

Version 4.0

Last revision 06/01/2024

*** 1 Identification**

- **Product name:** Black Glass-Filled Epoxy Powder
- **Part number:** 150-10005 - 150-10010
- **Application of the substance / the mixture** Thermoset molding
- **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**



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

· **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 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% |
| 557-05-1 | zinc distearate, pure | 1-5% |

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| | | |
|-----------|--|-------------|
| 2421-28-5 | benzophenone-3,3',4,4'-tetracarboxylic dianhydride ⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335 | 1-5% |
| 1333-86-4 | Carbon black ⚠ Self-heating substances and mixtures 2, H252; ⚠ Carcinogenicity 2, H351 | 0.1-≤1% |
| 1344-95-2 | Silicic acid, calcium salt | ≤1% |
| 118-74-1 | hexachlorobenzene ⚠ Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 0.025-<0.1% |
| 111-90-0 | Diethylene glycol monoethyl ether Flammable Liquids 4, H227 | ≤1% |

· 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:** 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.

· Methods and material for containment and cleaning up:

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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· 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**

Dust well.

Ensure proper ventilation/exhaustion at workplaces.

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 additional data. See 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 |
| TLV | Long-term value: 3* mg/m ³ *inhalable fraction, A3 |

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| | |
|---|---|
| 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 |
| 118-74-1 hexachlorobenzene | |
| TLV | Long-term value: 0.002 mg/m ³ Skin, A3 |
| 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

| | | | | | |
|---|-----------------|------------------------------|---------------|--------|-------|
| <ul style="list-style-type: none"> · Information on basic physical and chemical properties · General Information · Appearance: <table> <tr> <td>Form:</td><td>Powder</td></tr> <tr> <td>Color:</td><td>Black</td></tr> </table> · Odor: Mild · Odor threshold: Not determined. | | Form: | Powder | Color: | Black |
| Form: | Powder | | | | |
| Color: | Black | | | | |
| · pH-value: | Not applicable. | | | | |
| <ul style="list-style-type: none"> · Change in condition <table> <tr> <td>Melting point/Melting range:</td><td>Undetermined.</td></tr> </table> | | Melting point/Melting range: | Undetermined. | | |
| Melting point/Melting range: | Undetermined. | | | | |

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| | |
|---|---|
| Boiling point/Boiling range: | Undetermined. |
| · Flash point: | Not applicable. |
| · Flammability (solid, gaseous): | Not determined. |
| · 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 applicable. |
| · Density at 20 °C (68 °F): | 1.5 g/cm ³ (12.518 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: | 98.5 % |
| · 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**
Do not mix with alkalis.
Keep away from oxidising agents and acidic substances.
- **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: | | |
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) |
| 117-08-8 tetrachlorophthalic anhydride | | |
| Oral | LD50 | 15,800 mg/kg (rat) |

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| | | |
|---|------|-----------------------|
| 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:**

Water hazard class 2 (Self-assessment): hazardous for water

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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- **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 | 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 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**
- **Sara**

| |
|--|
| · Section 355 (extremely hazardous substances): |
| None of the ingredients is listed. |
| · Section 313 (Specific toxic chemical listings): |
| 557-05-1 zinc distearate, pure |
| 118-74-1 hexachlorobenzene |
| 111-90-0 Diethylene glycol monoethyl ether |
| · TSCA (Toxic Substances Control Act): |
| All components have the value ACTIVE. |
| · Hazardous Air Pollutants |
| 118-74-1 hexachlorobenzene |
| · Proposition 65 |
| · Chemicals known to cause cancer: |
| 14808-60-7 Quartz (SiO ₂) |
| 1333-86-4 Carbon black |
| 118-74-1 hexachlorobenzene |
| · Chemicals known to cause reproductive toxicity for females: |
| None of the ingredients is listed. |

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| | |
|--|-------------------|
| · 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

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 / 3.0
- **Supersedes date:** 12/01/2022
- **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
 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 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.**