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Safety Data Sheet acc. to OSHA HCS

Last revision 06/01/2024

Printing date 07/02/2024

Version 6.0

1 Identification

- · Product name: Conductive Mounting Powder, Graphite-based
- · Part number: 155-20010, 155-20015
- · 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

Carcinogenicity 2 H351 Suspected of causing cancer.



· · · · · · · · · · · · · · · · · · ·	
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
 Combustible Dust	May form combustible dust concentrations in air.
T 1 1 1 4	

· Label elements

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



· Signal word Warning

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· Hazard-determining c	components of labeling:
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- Carbon black
- methenamine

· Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

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

Wash thoroughly after handling.

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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

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

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

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:	
12001-26-2	Mica	10-20%
1332-58-7	Kaolin	10-20%
7782-42-5	Graphite	10-20%
14807-96-6	Talc (Mg3H2(SiO3)4)	10-20%
	Wood flour	10-20%
	Coal dust	5-10%
1333-86-4	Carbon black	1-5%
	Self-heating substances and mixtures 2, H252; 🗞 Carcinogenicity 2, H351	
100-97-0	methenamine	1-5%
	Tlammable Solids 2, H228; () Sensitization - Skin 1, H317	
1305-62-0	calcium dihydroxide	1-<3%
	Nin Corrosion 1B, H314; Eye Damage 1, H318	
108-95-2	phenol	<1%
	Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; Germ Cell Mutagenicity 2, H341; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Skin Corrosion 1B, H314	
50-00-0	formaldehyde	<0.1%
	Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; Germ Cell Mutagenicity 2, H341; Carcinogenicity 1A, H350; Skin Corrosion 1B, H314; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	

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 • Non-hazardous components:

 9003-35-4

 Phenolic Polymer

 40-50%

• 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: Immediately remove any clothing soiled by the product.
- · 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
- 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:
- Water spray
- Fire-extinguishing powder
- Alcohol resistant foam
- Carbon dioxide
- 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 Avoid formation of dust.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: 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.

Open and handle receptacle with care.

• Information about protection against explosions and fires: No special measures required.

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· Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles: Store at temperatures not exceeding 30°C.
- Store only in the original receptacle.
- · 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:		
12001-26-2 Mica		
PEL Long-term value: 20 mppcf ppm <1% crystalline silica		
REL Long-term value: 3* mg/m ³ *respirable dust; containing < 1% quartz		
TLV Long-term value: 0.1 mg/m ³ *Respirable particulate matter		
1332-58-7 Kaolin		
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: 2* mg/m ³ E; respirable particulate matter, A4		
7782-42-5 Graphite		
PEL Long-term value: 15 mppcf* mg/m ³ *impinger samples counted by light field techn.		
REL Long-term value: 2.5* mg/m ³ *respirable dust		
TLV Long-term value: 2* mg/m ³ all forms except graphite fibers;*resp. fraction		
14807-96-6 Talc (Mg3H2(SiO3)4)		
PEL Long-term value: 20 mppcf ppm (containing <1% Quartz)		
REL Long-term value: 2* mg/m ³ *respirable dust; and <1% Quartz		
TLV Long-term value: 2* mg/m ³ *no asbestos fibers,resp. particulate matter,E,A4		
Wood flour		
PEL Long-term value: 15 mg/m ³		
Coal dust		
PEL Long-term value: 10 mg/m ³		
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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	
100-97-0 methenamine	
TLV Long-term value: 1 mg/m ³ *inhalable fraction, A4, DSEN	
1305-62-0 calcium dihydroxide	
PEL Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction	
REL Long-term value: 5 mg/m ³	
TLV Long-term value: 5 mg/m ³	
108-95-2 phenol	
PEL Long-term value: 19 mg/m ³ , 5 ppm Skin	
REL Long-term value: 19 mg/m ³ , 5 ppm Ceiling limit value: 60* mg/m ³ , 15.6* ppm *15-min; Skin	
TLV Long-term value: 5 ppm Skin; BEI, A4	
50-00-0 formaldehyde	
PEL Short-term value: 2 ppm Long-term value: 0.75 ppm see 29 CFR 1910.1048(c)	
REL Long-term value: 0.016 ppm Ceiling limit value: 0.1* ppm *15-min; See Pocket Guide App. A	
TLV Short-term value: 0.3 ppm Long-term value: 0.1 ppm DSEN; RSEN, A1	
· Ingredients with biological limit values:	
108-95-2 phenol	
BEI 250 mg/g creatinine	
Medium: urine	
Time: end of shift	
Parameter: Phenol with hydrolysis (background, nonspecific)	
 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 and skin.

• Breathing equipment: Use suitable respiratory protective device when high concentrations are present.

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· 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:	Phenol-like	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
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• Change in condition	The determinent	
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.	
Bolling point/Bolling 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:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
 Evaporation rate 	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/water	r): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	

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Kinematic:	Not applicable.	
· Solvent content: Organic solvents: VOC content:	0.4 % 0.43 %	
Solids content:	100.0 %	
• 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 heat.

Keep away from open flames. - No smoking.

Keep away from oxidising agents and acidic substances.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:
- Formaldehyde

Phenol

Ammonia

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	· LD/LC50 values that are relevant for classification:			
ATE (Acu	ATE (Acute Toxicity Estimate)			
Oral	LD50	81,282 mg/kg (rat)		
Dermal	LD50	217,949 mg/kg (rabbit)		
Inhalative	LC50/4 h	128 mg/l		
1333-86-4	1333-86-4 Carbon black			
Oral	LD50	10,000 mg/kg (rat)		
1305-62-0	1305-62-0 calcium dihydroxide			
Oral	LD50	7,340 mg/kg (rat)		
108-95-2 p	108-95-2 phenol			
Oral	LD50	317 mg/kg (rat)		
Dermal	LD50	850 mg/kg (rabbit)		
Inhalative	LC50/4 h	0.5 mg/l (ATE)		
50-00-0 fo	50-00-0 formaldehyde			
Oral	LD50	>200 mg/kg (rat)		
Dermal	LD50	270 mg/kg (rabbit)		
Inhalative	LC50/4 h	3 mg/l (ATE)		

Primary chemical irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

· Sensitization: Sensitization possible through skin contact.

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· Additional toxicological	information:
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· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

14807-96-6 Talc (Mg3H2(SiO3)4)

1333-86-4 Carbon black

108-95-2 phenol

50-00-0 formaldehyde

·NTP (National Toxicology Program)

50-00-0 formaldehyde

· OSHA-Ca (Occupational Safety & Health Administration)

50-00-0 formaldehyde

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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	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.

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the IBC Code	Not applicable.	
UN "Model Regulation":	not regulated	
Regulatory information		
Safety, health and environmental regulations Sara	/legislation specific for the substance or mixture	
Section 355 (extremely hazardous substances):	
108-95-2 phenol		
50-00-0 formaldehyde		
Section 313 (Specific toxic chemical listings):		
108-95-2 phenol		
50-00-0 formaldehyde		
TSCA (Toxic Substances Control Act): All other ingredients are exempt from listing.		
9003-35-4 Phenolic Polymer		ACTIV
1332-58-7 Kaolin		ACTIV
7782-42-5 Graphite		ACTIV
14807-96-6 Talc (Mg3H2(SiO3)4)		ACTIV
1333-86-4 Carbon black		ACTIV
100-97-0 methenamine		ACTIV
1305-62-0 calcium dihydroxide		ACTIV
108-95-2 phenol		ACTIV
50-00-0 formaldehyde		ACTIV
Hazardous Air Pollutants		
108-95-2 phenol		
50-00-0 formaldehyde		
Proposition 65		
Chemicals known to cause cancer:		
1333-86-4 Carbon black		
50-00-0 formaldehyde		
Chemicals known to cause reproductive toxic	ity for females:	
None of the ingredients is listed.		
Chemicals known to cause reproductive toxic	ity for males:	
None of the ingredients is listed.		
Chemicals known to cause developmental tox	icity:	
None of the ingredients is listed.		

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 / 5.0

· Supersedes date: 06/01/2022

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· Abbreviations and acronyms: 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 BEI: Biological Exposure Limit Flammable Liquids 4: Flammable liquids - Category 4 Flammable Solids 2: Flammable solids - Category 2 Self-heating substances and mixtures 2: Self-heating substances and mixtures - Category 2 Acute Toxicity - Oral 3: Acute toxicity - Category 3 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Skin 1: Skin sensitisation - Category 1 Germ Cell Mutagenicity 2: Germ cell mutagenicity - Category 2 Carcinogenicity 1A: Carcinogenicity - Category 1A Carcinogenicity 2: Carcinogenicity - Category 2 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2 * * Data compared to the previous version altered.