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Safety Data Sheet acc. to OSHA HCS

Version 5.0 Printing date 06/01/2022 Last revision 06/01/2022

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.

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

Carcinogenicity 2 H351 Suspected of causing cancer.



GHS07

Skin Irrititation 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.

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





GHS07

GHS08

· Signal word Warning

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· Hazard-determining components of labeling:

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	· 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%	
	Flammable Solids 2, H228; ♦ Sensitization - Skin 1, H317		
1305-62-0	calcium dihydroxide	1-<3%	
	Skin 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 1B, 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 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

Ensure good ventilation/exhaustion at the workplace.

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 further data; see item 7.
- · Control parameters

	· Components with limit values that require monitoring at the workplace:					
	2001-26-2 Mica					
	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					
	*resp.fraction					
1332	-58-7 Kaolin					
PEL	Long-term value: 15* 5** mg/m³					
	*total dust **respirable fraction					
REL	Long-term value: 10* 5** mg/m³					
777.77	*total dust **respirable fraction					
ILV	Long-term value: 2* mg/m³ E; as respirable fraction, A4					
7782	-42-5 Graphite					
	Long-term value: 15 mppcf* mg/m ³					
ILL	*impinger samples counted by light field techn.					
REL	Long-term value: 2.5* mg/m³					
	*respirable dust					
TLV	Long-term value: 2* mg/m³					
1400	all forms except graphite fibers;*resp. fraction					
	7-96-6 Talc (Mg3H2(SiO3)4)					
PEL	Long-term value: 20 mppcf ppm (containing <1% Quartz)					
DEI	Long-term value: 2* mg/m ³					
KLL	*respirable dust; and <1% Quartz					
TLV	Long-term value: 2* mg/m ³					
	*no asbestos fibers,resp. particulate matter,E,A4					
Woo	Wood flour					
PEL	Long-term value: 15 mg/m ³					
TLV Long-term value: 1 mg/m ³						
Coal	Coal dust					
PEL	EL Long-term value: 10 mg/m³					
TLV	Long-term value: 2 mg/m³					
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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/m³				
	*inhalable fraction, A3				
100-9	97-0 methenamine				
TLV	Long-term value: 1* mg/m³				
	*inhalable fraction, A4, DSEN				
1305	-62-0 calcium dihydroxide				
PEL	Long-term value: 15* 5** mg/m³				
	*total dust **respirable fraction				
REL	Long-term value: 5 mg/m ³				
TLV	Long-term value: 5 mg/m ³				
108-9	95-2 phenol				
PEL	Long-term value: 19 mg/m³, 5 ppm				
	Skin				
REL	Long-term value: 19 mg/m³, 5 ppm				
	Ceiling limit value: 60* mg/m³, 15.6* ppm				
	*15-min; Skin				
TLV	Long-term value: 19 mg/m³, 5 ppm				
	Skin; BEI, A4				
	0-0 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				
TIM	Short-term value: 0.37 mg/m³, 0.3 ppm				
ILV	Long-term value: 0.37 mg/m ² , 0.3 ppm				
	DSEN; RSEN, A1				
· Ingra	edients with biological limit values:				
	108-95-2 phenol				
	250 mg/g creatinine Medium: urine				
	Medium, urme				

- · Exposure controls
- · Personal protective equipment:

Time: end of shift

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Parameter: Phenol with hydrolysis (background, nonspecific)

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.		
· 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:	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 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	Inhalative LC50/4 h 128 mg/l			
1333-86-4 Carbon black				
Oral	LD50	10,000 mg/kg (rat)		
1305-62-0	1305-62-0 calcium dihydroxide			

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:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)					
14807-96-6	Talc (Mg3H2(SiO3)4)	3			
1333-86-4	Carbon black	2B			
108-95-2	phenol	3			
50-00-0	formaldehyde	1			
· NTP (Natio	· NTP (National Toxicology Program)				
50-00-0 for	50-00-0 formaldehyde K				
· OSHA-Ca (Occupational Safety & Health Administration)					
50-00-0 for	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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· Transport in bulk according to Annex II of MARPOL73/78 and			
the IBC Code	Not applicable.		
· UN "Model Regulation":	not regulated		

15 Regulatory information

50-00-0 formaldehyde

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

	Section 355 (extremely hazardous substances):				
Ī	108-95-2	phenol			
	50-00-0	formaldehyde			
	· Section 313 (Specific toxic chemical listings):				
Γ	108-95-2	phenol			

· TSCA (Toxic Substances Control Act):

All other ingredients are exempt from listing.

•		
9003-35-4	Phenolic Polymer	ACTIVE
1332-58-7	Kaolin	ACTIVE
7782-42-5	Graphite	ACTIVE
	Talc (Mg3H2(SiO3)4)	ACTIVE
	Carbon black	ACTIVE
	methenamine	ACTIVE
1305-62-0	calcium dihydroxide	ACTIVE
108-95-2	phenol	ACTIVE
50-00-0	formaldehyde	ACTIVE

· 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 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 / 4.1
- · Supersedes date: 05/18/2021

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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 Irrititation 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 1B: Carcinogenicity - Category 1B

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.