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Safety Data Sheet acc. to OSHA HCS

Printing date 07/02/2024

Version 4.0

Last revision 06/01/2024

1 Identification

- · Product name: Silicon Carbide Cut-Off & Wafering Blades, Resin Bond
- · Part number:

80-10045 80-11400 - 80-11810 80-30045 - 80-30060 80-40045 - 80-40065 80-50045 - 80-50065

· Application of the substance / the mixture Abrasive blade

• 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



Carcinogenicity 2	H351 Suspected of causing cancer. Route of exposure: Inhalation.
Specific Target Organ Toxicity - Repeated Exposure 1	H372 Causes damage to the lung and the bones through prolonged or repeated
	exposure.



Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Aquatic Chronic 3 Additional information:	H412 Harmful to aquatic life with long lasting effects.

All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk.

· Label elements

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

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· Hazard pictograms



- · Signal word Danger
- **Hazard-determining components of labeling:** trisodium hexafluoroaluminate titanium dioxide
- Hazard statements
 Causes skin irritation.
 Causes serious eye irritation.
 Suspected of causing cancer. Route of exposure: Inhalation.
 Causes damage to the lung and the bones through prolonged or repeated exposure.
 Harmful to aquatic life with long lasting effects.
- · Precautionary statements
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- 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).
- Get medical advice/attention if you feel unwell.
- Take off contaminated clothing and wash it before reuse.
- If skin irritation occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- \cdot **Description:** Mixture of the substances listed below with nonhazardous additions.

409-21-2	silicon carbide	50-60%
	trisodium hexafluoroaluminate	10%
	Specific Target Organ Toxicity - Repeated Exposure 1, H372; S Aquatic Chronic 2, H411; Acute Toxicity - Inhalation 4, H332	-
1309-37-1	diiron trioxide	5-10%
7789-75-5	calcium fluoride	5-10%
5096-52-3	cryolite Aquatic Chronic 2, H411; () Acute Toxicity - Inhalation 4, H332	2.5-<5%
	Paraffin waxes and Hydrocarbon waxes	1-5%
	potassium tetrafluoroborate	1-5%
	🛞 Acute Toxicity - Oral 3, H301; 🗘 Skin Irritation 2, H315; Eye Irritation 2A, H319	

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	calcium dihydroxide	≤1%
	Skin Corrosion 1B, H314; Eye Damage 1, H318	
1305-78-8	calcium oxide	≤1%
	🚱 Eye Damage 1, H318	
	titanium dioxide	0.1-≤1%
	Carcinogenicity 2, H351	
· Non-hazaro	lous components:	
12068-85-8	Iron Disulphide	5-10%
	Polymeric Resin (cured)	5-10%
	Epoxy (cured)	5-10%
1314-98-3	zinc sulphide	1-5%

· Additional information:

Product may contain many or all of the above ingredients.

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.

- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: 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
- Eye irritation
- Coughing
- Dermatitis
- Eye irritation
- Dermatitis

· 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 During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Keep away from ignition sources

• Environmental precautions:

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:

Pick up mechanically.

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.

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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.
- · 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: Store away from foodstuffs.
- 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 remaining constituent has no known exposure limits.

400.1	1-2 silicon carbide
PEL	Long-term value: 15* 5** mg/m ³
	fibrous dust: *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
	fibrous dust:0.1 f/cc A2, nonfibrous:*inh.,**resp.
1309-	37-1 diiron trioxide
PEL	Long-term value: 10* mg/m ³
	*Fume
REL	Long-term value: 5 mg/m ³
	Dust & fume, as Fe
TLV	Long-term value: 5* mg/m ³
	*Respirable particulate matter, A4
7789-	75-5 calcium fluoride
PEL	Long-term value: 2.5 mg/m ³
	as F
REL	Long-term value: 2.5 mg/m ³
	as F
TLV	Long-term value: 2.5 mg/m ³
	as F, A4; BEI
1509	5-52-3 cryolite
PEL	Long-term value: 2.5 mg/m ³
	as F
REL	Long-term value: 2.5 mg/m ³
	as F
	(Cout)

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8002-74-2 Paraffin waxes and Hydrocarbon waxes	
REL Long-term value: 2 mg/m ³	
TLV Long-term value: 2 mg/m ³	
14075-53-7 potassium tetrafluoroborate	
PEL Long-term value: 2.5 mg/m ³ as F	
REL Long-term value: 2.5 mg/m ³ as F	
TLV Long-term value: 2.5 mg/m ³	
as F, A4; BEI	
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	
1305-78-8 calcium oxide	
PEL Long-term value: 5 mg/m ³	
REL Long-term value: 2 mg/m ³	
TLV Long-term value: 2 mg/m ³	
13463-67-7 titanium dioxide	
PEL Long-term value: 15* mg/m ³ *total dust	
REL See Pocket Guide App. A	
TLV Long-term value: 0.2* 2.5** mg/m ³	
resp. fraction, *nanoscale, **finescale, A3	
· Ingredients with biological limit values:	
7789-75-5 calcium fluoride	
BEI 2 mg/L	
Medium: urine Time: prior to shift	
Parameter: Fluoride (background, nonspecific)	
3 mg/L	
Medium: urine Time: end of shift	
Parameter: Fluoride (background, nonspecific)	
15096-52-3 cryolite	
BEI 2 mg/L	
Medium: urine	
Time: prior to shift	
Parameter: Fluoride (background, nonspecific)	
3 mg/L	
Medium: urine	
Time: end of shift	
Parameter: Fluoride (background, nonspecific)	(Contd. on page 6)
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14075-53-7 potassium tetrafluoroborate	
BEI 2 mg/L	
Medium: urine	
Time: prior to shift	
Parameter: Fluoride (background, nonspecific)	
3 mg/L	
Medium: urine	
Time: end of shift	
Parameter: Fluoride (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.
- 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

Leather 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
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· General Information	
· Appearance:	
Form:	Solid
Color:	According to product specification
· Odor:	Odorless
· 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.

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	(Contd. of	page 6)
• Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure:	Not applicable.	
 Density: Relative density Vapor density Evaporation rate 	Not determined. Not determined. Not applicable. Not applicable.	
 Solubility in / Miscibility with Water: 	Insoluble.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
· Solvent content: VOC content:	0.00 %	
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 oxidising agents and acidic substances.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:
- Silicon oxides

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	ite Toxicity	y Estimate)	
Oral	LD50	6,500 mg/kg	
Inhalative	LC50/4 h	10 mg/l	
409-21-2 s	409-21-2 silicon carbide		
Oral	LD50	>2,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
13775-53-	13775-53-6 trisodium hexafluoroaluminate		
Inhalative	LC50/4 h	1.5 mg/l (ATE)	

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1300 37	1 diiron tr	iovido	(Contd. of page
Oral	LD50	>5,000 mg/kg (rat)	
	5 calcium		
Oral	LD50	4,250 mg/kg (rat)	
	2-3 cryolite		
		1 1.5 mg/l (ATE)	
	-	um tetrafluoroborate	
Oral	LD50	100 mg/kg (ATE)	
		dihydroxide	
Oral	LD50	7,340 mg/kg (rat)	
	-7 titaniun		
Oral	LD50	>20,000 mg/kg (rat)	
Dermal	LD50	>10,000 mg/kg (rabbit)	
		n >6.82 mg/l (rat)	
Addition Abrasive Abrasive		ıt	
		al Agency for Research on Cancer)	
409-2	-2 silicon	carbide	2
1309-37	7-1 diiron t	rioxide	3
7789-75	5-5 calcium	ı fluoride	3
14075-53	-7 potassiu	um tetrafluoroborate	3
13463-67	7-7 titaniun	n dioxide	2
NTP (Na	tional Tox	icology Program)	
None of	he ingredie	ents is listed.	
	Ca (Occupa	ntional Safety & Health Administration)	

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.
- · Ecotoxical effects:
- Remark: Harmful to fish
- · Additional ecological information:
- · General notes:
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Harmful to aquatic organisms

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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• Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- \cdot 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 an the IBC Code	d Not applicable.
· UN "Model Regulation":	not regulated

15 Regulatory information

\cdot 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.
· Section 313 (Specific toxic chemical listings):
1314-98-3 zinc sulphide
· 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:
13463-67-7 titanium dioxide
· 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.
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· 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: 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
- BEI: Biological Exposure Limit
- Acute Toxicity Oral 3: Acute toxicity Category 3
- Acute Toxicity Inhalation 4: Acute toxicity Category 4
- 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
- Carcinogenicity 2: Carcinogenicity Category 2
- Specific Target Organ Toxicity Repeated Exposure 1: Specific target organ toxicity (repeated exposure) Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment long-term aquatic hazard Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment long-term aquatic hazard Category 3

** Data compared to the previous version altered.