

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.08.2019

## Z3 & Z4 FLAP DISC MATERIAL

#### SECTION 1: Identification

#### **Product identifier**

Product name: Z3 & Z4 FLAP DISC MATERIAL

Synonyms: Coated Abrasives and Filler bound to a Polyester Backing Material

Additional information: This product is not hazardous as shipped and sold. However, during the grinding process, hazardous substances may be released and made available for exposure. The Hazard Classification in Section 2 and corresponding Label Elements are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that compromises the integrity of the disc.

# Recommended use of the product and restriction on use

Relevant identified uses: Coated abrasives for sanding of material. Uses advised against: Any use other than described above. Reasons why uses advised against: Not determined or not applicable.

# Manufacturer or supplier details

Manufacturer: United States CGW Abrasives 7525 N Oak Park Ave Niles, IL 60714 800-447-3731 sales@cgwcamel.com

## Emergency telephone number:

United States Emergency Phone Number 800-447-3731 (24/7)

### SECTION 2: Hazard(s) identification

# GHS classification:

Eye irritation, category 2A Specific target organ toxicity - repeated exposure, category 1 Skin irritation, category 2 Skin sensitization, category 1A

# Label elements

Hazard pictograms:



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Signal word: Danger

# Hazard statements:

H319 Causes serious eye irritation

H372 Causes damage to organs (bone; teeth; hair; skin) through prolonged or repeated exposure.

H315 Causes skin irritation

H317 May cause an allergic skin reaction

# Precautionary statements:

P264 Wash skin thoroughly after handling.

- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P260 Do not breathe dust/fume/gas/mist/vapors/spray

P270 Do not eat, drink or smoke when using this product

P272 Contaminated work clothing must not be allowed out of the workplace

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention

P314 Get medical advice/attention if you feel unwell

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see Sections 4 - 8 of this SDS and any additional information on the product label).

P362 Take off contaminated clothing and wash it before reuse

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P501 Dispose of contents/container in accordance with all local/regional/state and federal regulations.

# Hazards not otherwise classified:

Prolonged exposure to metal fume or dust may cause Metal Fume Fever

Finely dispersed particles may form explosive mixtures in air

# SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 1344-28-1	Aluminum Oxide	25-45
CAS number: 68955-26-0	Alumina Zirconia	25-45
CAS number: Not Applicable	Polyester	25-60
CAS number: 14075-53-7	Potassium tetrafluoroborate	1-15
CAS number: 471-34-1	Calcium Carbonate	1-10
CAS number: 15096-52-3	Trisodium hexafluoroaluminate (Cryolite)	1-15
CAS number: 9003-35-4	Cured Phenolic Resin	8-16

# Additional Information: None

SECTION 4: First aid measures

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### Description of first aid measures

#### General notes:

The First Aid Measures described below are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that releases hazardous dust or fume

### After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention

### After skin contact:

Wash off with plenty of water. Remove contaminated clothing and launder before reuse. If skin irritation or rash develops and persist, seek medical advice/attention

# After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present to do so. Protect unexposed eye. Continue rinsing. Get medical attention if irritation develops or persists

#### After swallowing:

Not a likely route of exposure

#### Most important symptoms and effects, both acute and delayed

### Acute symptoms and effects:

The Acute Effects described below are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that releases hazardous dust or fume INHALATION of airborne dusts and fumes may cause respiratory irritation. Symptoms include cough, breathing difficulties, inflammation of the mucous membranes lining the respiratory tract and nose and throat pain. Excessive inhalation of fumes of freshly formed metal oxide particles may cause a flu-like illness called Metal Fume Fever

SKIN CONTACT may result in skin irritation. Symptoms include redness, inflammation and itching. May cause an allergic skin reaction. Symptoms include rash, burning, itching and inflammation EYE CONTACT with airborne dust and fume may cause serious eye irritation. Symptoms include: redness, tearing, burning and inflammation

### Delayed symptoms and effects:

The Delayed Effects described below are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that releases hazardous dust or fume Chronic exposure to Aluminum Oxide and Zirconium Oxide may cause lung damage; resulting in chronic bronchitis, COPD and pulmonary fibrosis

Chronic exposure to fluoride and fluoride compounds may cause damage to teeth, bones (fluorosis) and lungs. Fluorosis is caused by a high fluoride concentration in the body. This causes the bones to harden and become less elastic, resulting in increased fractures, joint pain and immobility

#### Immediate medical attention and special treatment

### Specific treatment:

None known

### Notes for the doctor:

Treat symptomatically

# SECTION 5: Firefighting measures

# Extinguishing media

#### Suitable extinguishing media:

Alcohol- resistant foam, Dry chemical or Carbon dioxide

## Unsuitable extinguishing media:

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Do not use water jet as an extinguisher

# Specific hazards during fire-fighting:

Thermal decomposition may lead to the release of irritating and toxic substances, including: Carbon Oxides, Aluminum Oxides, Zirconium Oxides, Potassium Oxides. Calcium Oxides, Hydrogen Fluoride, Borane, Boron Oxides, Formaldehyde and Phenol

# Special protective equipment for firefighters:

Self-contained MSHA/NIOSH approved respiratory protection and full protective clothing should be worn when fumes and/or smoke from fire are present

## Special precautions:

Not determined or not applicable.

# SECTION 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures:

Not Applicable

## **Environmental precautions:**

Discharge into the environment should be avoided

# Methods and material for containment and cleaning up:

Not Applicable

# Reference to other sections:

Not determined or not applicable.

# SECTION 7: Handling and storage

## Precautions for safe handling:

The Precautions for Safe Handling described below are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that releases hazardous dust or fume.

Wear recommended personal protective equipment (see Section 8).

Use only with adequate ventilation.

Do not breathe dust/fume/aerosol/mist/spray.

Avoid contact with eyes, skin and clothing.

Keep away from hot surfaces, open flame and sources of ignition.

Do not eat, drink or smoke while using.

Wash thoroughly after handling.

Do not allow contaminated clothing outside of the workplace.

# Conditions for safe storage, including any incompatibilities:

Sore in a cool, dry place and out of direct sunlight.

Store at Temperatures, 15°C--27°C and Humidity, 40%- 50%

Do not place the materials on the ground or concrete floor.

Store away from hot surfaces (e.g. heater, radiator), open flame, ignition sources and incompatible materials. See Section 10 for incompatibles.

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

## Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
OSHA	Alumina Zirconia	68955-26-0	8-Hour TWA-PEL: 5 mg/m <sup>3</sup> ((As Zr))

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Calcium Carbonate	471-34-1	TWA: 5 mg/m <sup>3</sup> (Respirable fraction)
	Calcium Carbonate	471-34-1	TWA: 15 mg/m <sup>3</sup> (Total dust)
	Trisodium hexafluoroaluminate (Cryolite)	15096-52-3	8-Hour TWA-PEL: 2.5 mg/m <sup>3</sup> ( (Fluorides as F))
	Aluminum Oxide	1344-28-1	8-Hour TWA-PEL: 15 mg/m <sup>3</sup> ((total dust))
	Aluminum Oxide	1344-28-1	8-Hour TWA-PEL: 5 mg/m <sup>3</sup> ((respirable fraction))
NIOSH	Alumina Zirconia	68955-26-0	TWA: 5 mg/m <sup>3</sup> ((as Zr) - 10 hr.)
	Alumina Zirconia	68955-26-0	15-Minute STEL: 10 mg/m <sup>3</sup> ( (As Zr))
	Alumina Zirconia	68955-26-0	IDLH: 50 mg/m <sup>3</sup>
	Calcium Carbonate	471-34-1	REL: 10 mg/m <sup>3</sup> (Total)
	Calcium Carbonate	471-34-1	REL: 5 mg/m <sup>3</sup> (Respirable)
	Trisodium hexafluoroaluminate (Cryolite)	15096-52-3	8-Hour TWA: 2.5 mg/m <sup>3</sup> ((Fluorides as F) )
	Trisodium hexafluoroaluminate (Cryolite)	15096-52-3	TWA: 2.5 mg/m <sup>3</sup> ( (Fluorides as F))
ACGIH	Alumina Zirconia	68955-26-0	8-Hour TWA: 5 mg/m <sup>3</sup> ( (As Zr))
	Alumina Zirconia	68955-26-0	15-Minute STEL: 10 mg/m <sup>3</sup> ( (As Zr))
	Trisodium hexafluoroaluminate (Cryolite)	15096-52-3	8-Hour TWA: 2.5 mg/m <sup>3</sup> ( (Fluorides as F) - TLV Basis: bone damage; fluorosis. BEI)
	Aluminum Oxide	1344-28-1	8-Hour TWA: 1 mg/m <sup>3</sup> ((respirable particulate))

# Biological limit values:

No biological exposure limits noted for the ingredient(s).

# Information on monitoring procedures:

Not determined or not applicable.

# Appropriate engineering controls:

The Engineering Controls described below are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that releases hazardous dust or fume. Use controls as appropriate to minimize exposure to metal fumes and dusts during handling operations. Provide general or local exhaust ventilation systems to minimize airborne concentrations. Local exhaust is necessary for use in enclosed or confined spaces. Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits

# Personal protection equipment

# Eye and face protection:

Contact lenses should not be worn where industrial exposure to this material is likely. Wear safety glasses, face shield or goggles as required for welding, burning, sawing, brazing, grinding or machining operations.

# Skin and body protection:

Cut resistant gloves and sleeves should be worn when working with metal parts. Protective gloves should be worn as required for grinding, welding and burning operations. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with

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this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Personal protective equipment for the body should be selected based on the task being performed and the risks involved. For grinding, welding and burning operations, wear appropriate personal protective clothing to prevent skin contact. Contaminated work clothing must not be allowed out of the workplace.

# Respiratory protection:

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, use only a NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. Concentration in air of the various contaminants determines the extent of respiratory protection needed.

### General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday.

## SECTION 9: Physical and chemical properties

Coated Abrasive with a Polyester Backing
None
Not determined or not available.

## Information on basic physical and chemical properties

Other information

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## SECTION 10: Stability and reactivity

## Reactivity:

Stable and non-reactive under normal conditions of use, storage and transport.

# Chemical stability:

Stable under normal storage and handling conditions.

### Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to avoid:

Strong acids, Strong bases & Strong oxidizing agents may modify the mechanical characteristics of the products and create safety hazards when used on machines

#### Incompatible materials:

Strong Acids; Strong Bases; Strong Oxizing Agents

### Hazardous decomposition products:

During use, hazardous dust and fume will be released.

Thermal decomposition may lead to the release of irritating and toxic substances, including: Carbon Oxides, Aluminum Oxides, Zirconium Oxides, Potassium Oxides. Calcium Oxides, Hydrogen Fluoride, Borane, Boron Oxides, Formaldehyde and Phenol.

### SECTION 11: Toxicological information

#### Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

## Skin corrosion/irritation

#### Assessment:

Causes skin irritation.

#### Product data:

No data available.

#### Substance data:

Name	Result
Potassium tetrafluoroborate	Causes severe skin burns.
Cured Phenolic Resin	Causes skin irritation.

#### Serious eye damage/irritation

### Assessment:

Causes serious eye irritation.

# Product data:

No data available.

#### Substance data:

Name	Result
Potassium tetrafluoroborate	Causes serious eye damage.
Cured Phenolic Resin	Causes serious eye irritation.

#### Respiratory or skin sensitization

#### Assessment:

May cause an allergic skin reaction.

### Product data:

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No data available.

### Substance data:

Name	Result
Cured Phenolic Resin	May cause an allergic skin reaction.

## Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

**Product data:** No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

## Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

# Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Potassium tetrafluoroborate	May cause respiratory irritation.

# Specific target organ toxicity (repeated exposure)

## Assessment:

Causes damage to organs through prolonged or repeated exposure.

Product data:

No data available.

Substance data:

Name	Result
	Causes damage to organs (bone, teeth, hair, skin) after prolonged or repeated exposure.
	Causes damage to organs (bones; fluorosis) through prolonged or repeated exposure.

## Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

## Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

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Symptoms related to the physical, chemical and toxicological characteristics: See Section 4: Acute Effects; Delayed Effects Other information: No data available.

# SECTION 12: Ecological information

## Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Chronic (long-term) toxicity Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available.

### Persistence and degradability

Product data: No data available.

Substance data: No data available.

# **Bioaccumulative potential**

Product data: No data available.

Substance data: No data available.

## Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

#### **SECTION 13: Disposal considerations**

#### Disposal methods:

Dispose of in accordance with all applicable local, regional, state and federal regulations **Contaminated packages:** Not determined or not applicable.

## SECTION 14: Transport information

## United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None

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Special precautions for user	None

# International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

# SECTION 15: Regulatory information

# **United States regulations**

# Inventory listing (TSCA):

68955-26-0	Alumina Zirconia	Listed
14075-53-7	Potassium tetrafluoroborate	Listed
471-34-1	Calcium Carbonate	Listed
15096-52-3	Trisodium hexafluoroaluminate (Cryolite)	Listed
1344-28-1	Aluminum Oxide	Listed
9003-35-4	Cured Phenolic Resin	Listed

# SARA Section 302 extremely hazardous substances: No ingredients listed.

# SARA Section 313 toxic chemicals:

68955-26-0	Alumina Zirconia	Not Listed
14075-53-7	Potassium tetrafluoroborate	Not Listed
471-34-1	Calcium Carbonate	Not Listed
15096-52-3	Trisodium hexafluoroaluminate (Cryolite)	Not Listed
1344-28-1	Aluminum Oxide	Listed
9003-35-4	Cured Phenolic Resin	Not Listed

# CERCLA: No ingredients listed.

RCRA: No ingredients listed.

## Massachusetts Right to Know:

68955-26-0	Alumina Zirconia	Listed
14075-53-7	Potassium tetrafluoroborate	Listed
471-34-1	Calcium Carbonate	Listed
1344-28-1	Aluminum Oxide	Listed

# New Jersey Right to Know:

68955-26-0	Alumina Zirconia	Listed
14075-53-7	Potassium tetrafluoroborate	Listed
471-34-1	Calcium Carbonate	Listed

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15096-52-3	Trisodium hexafluoroaluminate (Cryolite)	Listed
1344-28-1	Aluminum Oxide	Listed
9003-35-4	Cured Phenolic Resin	Listed

# New York Right to Know:

1344-28-1	Aluminum	Oxide
1344-28-1	Aluminum	Oxide

Pei	Pennsylvania Right to Know:			
	68955-26-0	Alumina Zirconia	Listed	
	14075-53-7	Potassium tetrafluoroborate	Listed	
	471-34-1	Calcium Carbonate	Listed	
	15096-52-3	Trisodium hexafluoroaluminate (Cryolite)	Listed	
	1344-28-1	Aluminum Oxide	Listed	
	9003-35-4	Cured Phenolic Resin	Listed	

# California Proposition 65:

**MARNING:** This product can expose you to chemicals including Phenol and Formaldehyde which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

# **SECTION 16: Other information**

## Abbreviations and Acronyms: None

## **Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

# NFPA: 0-0-0

# HMIS: 0-0-0

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## End of Safety Data Sheet

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Listed