Section 1: Chemical Product and Company Name

Abrasive Flap Disc
Part No. 741840-A / 741832-B

Safety Data Sheet

Complies with the OSHA Hazard Communication Standard
29 CFR 1910 1200

Makita U.S.A., Inc.
14930-C Northam Street
La Mirada, CA 90638

Prepared By: Stan Rodrigues

Date Revised: 04/11/2022

Emergency Contact Information

Telephone Number for Information: Makita (510) 657-9881

Emergency Response: For Chemical Emergency
Spills, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada 1-800-424-9300

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

This product as manufactured is defined as an article per 29 CFR 1910.1200. No exposure hazards are anticipated during normal product handling conditions. In most cases, the material(s) removed from the workpiece may present a greater hazard than material released by the product. Based upon the materials that are contained within the working portion of this product it is possible that some dust particles from this product may be generated. The following safety data is presented for potential exposure hazards as associated with the dust particles that are related to this product.

Classification (GHS-US)

Not Classified

2.2 Label Elements

GHS-US Labeling

This product as manufactured is defined as an article, therefore no labeling is required for the product as manufactured.

2.3 Other Hazards

No additional information available

2.4 Unknown acute toxicity (GHU US)

Not applicable

Section 3: Composition/ Information on ingredients

3.1 Substance

Not Applicable

3.2 Mixture

Name	Product identifier	%	Classification (GHS-US)
Aluminum oxide	(CAS No) 1344-28-1	15 - 25	Not classified
Epoxy Resin	None	5	Not classified
Zirconium	(CAS No) 7440-67-7	3 - 13	Not classified
Zinc stearate	(CAS No) 557-05-1	3 - 13	Not classified
Cryolite	(CAS No) 13775-53-6	1 - 15	Acute Toxin 4, H332 STOT wdh.1, H372 Acute Toxin 4, H302 Aqu. Chron., H411
Silica	(CAS No) 7631-86-9	< 2	Not classified
Formaldehyde	(CAS No) 50-00-0	< 0.1	Carc 1B, H350 Acute Toxin 3, H301 Acute Toxin 3, H311 Acute Toxin 3, H331 Skin Corr. 1B, H314 Skin Sens. 1, H317

Full Text of H-phrases: see section 16

Section 4: First Aid Measures

4.1 Description of first aid measures

First-aid measures after inhalation: Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.

First-aid measures after skin contact: Wash with soap and water. Seek medical advice if skin irritation develops or persists.

First-aid measures after eye contact: Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.

First-aid measures after ingestion: Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: Dusts may cause coughing, shortness of breath. Prolonged breathing of dusts may affect breathing capacity.

Symptoms/injuries after skin contact: Dusts may cause irritation. May cause abrasions.

Symptoms/injuries after eye contact: Dust may irritate or damage the eyes without protection.

Symptoms/injuries after ingestion: None under normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

Section 5: Firefighting Measures

5.1 Extinguishing Media

Suitable extinguishing media:	Use water, carbon dioxide, foam, or dry chemical.
Unsuitable extinguishing media:	None

5.1 Special hazards arising from the substance or mixture

Fire hazard:	None known
Explosion hazard:	None known

5.3 Advice for firefighters

Protection during firefighting:	Firefighters should wear full protective gear.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2 Environmental precautions

None

6.3. Methods and material for containment and cleaning up

For containment:	No special measures required
Methods for cleaning up:	No special measures required

6.4 Reference to other sections

No additional information available

Section 7: Handling and Storage

7.1 Precautions for safe handling

Precaution for safe handling:	Handle with care, avoid contact.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Store dry at 20° C +/- 20 °C: 55-60% air humidity

7.3 Specific end use(s)

No additional information available

Section 8: Exposure Control/ Personal Protection

8.1 Control parameters

Aluminum oxide (1344-28-1)		
ACGIH	Not applicable	
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

Zinc stearate (557-05-1)		
ACGIH	Not applicable	
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

Silica (7631-86-9)		
IDLH	US IDLH (mg/m³)	3000 mg/m³
NIOSH	NIOSH REL (TWA) (mg/m³)	6 mg/m³

Formaldehyde (50-00-0)		
ACGIH	ACGIH TWA (mg/m³)	TWA: 0.1 mg/m³ STEL: 0.3 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	TWA: 0.75 mg/m³ STEL: 2 mg/m³
NIOSH	NIOSH REL (TWA) (mg/m³)	TWA: 0.016 mg/m³

Note: Consideration should be given to the base material and coating that are being worked upon.

8.2 Exposure controls

Appropriate engineering controls:

Utilize adequate ventilation to minimize the exposure to airborne particulates and maintain the concentration of contaminants below the occupational exposure limits.

Respiratory Protection:

When exposure limits are exceeded or when the dust concentrations are excessive, approved respirators for those conditions should be used. When selecting the respiratory protection equipment, consideration of the exposure to the coating or the base materials being worked on should be included. Local regulations and standards should be followed where appropriate. The type of respiratory equipment used should be selected according to the contaminate type, form and concentration being produced. Select and use respirators in accordance with applicable regulations and good industrial hygiene practice.

Hand protection:

The use of cloth or leather gloves is recommended.

Eye Protection:

Safety googles or face shield over safety glasses with side shields.

Hearing Protection:

Hearing protection may be required.

Skin and body protection:

The use of protective clothing should be used as needed to prevent the contamination of personal clothing.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Solid
Appearance:	Aluminum disc coated with flaps of abrasive cloth
Color:	Varies
Odor:	Odorless
Odor threshold:	No data available
pH:	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Relative evaporation rate (butyl acetate=1):	No data available
Flammability (solid, gas):	No data available
Explosion limits:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Vapor pressure:	No data available
Specific gravity:	No data available
Relative vapor density at 20 °C:	No data available
Solubility:	Paper label is slightly soluble
Log Pow:	No data available
Log Kow:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature	No data available
Viscosity:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available

9.2 Other information

No additional information available

Section 10: Stability and Reactivity

10.1 Reactivity

No additional information available

10.2 Chemical stability

The product is stable at normal handling and storage conditions.

10.3 Possibility of hazardous reactions

Will not occur

10.4 Conditions to avoid

None

10.5 Incompatible materials

Strong alkali

10.6 Hazardous decomposition products

During use, grinding dust is generated.

Section 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity: Not classified

Aluminum oxide (1344-28-1)	
LD50 oral rat	> 5000 mg/kg
Zinc stearate (557-05-1)	
LD50 oral rat	> 10 g/kg
LD50 dermal rabbit	> 2000 mg/kg
Formaldehyde (50-00-0)	
LD50 oral rat	50 g/kg
LD50 dermal rabbit	250 mg/kg
LC50 inhalation rat	0.578 mg/l/4h

Skin corrosion/irritation: Not Classified

Serious eye damage/irritation: Not Classified

Respiratory or skin sensitization: Not Classified

Germ cell mutagenicity: Not Classified

Carcinogenicity: Not Classified

Reproductive toxicity: Not Classified

Specific target organ toxicity (single exposure): Not Classified

Specific target organ toxicity (repeated exposure): Not Classified

Aspiration hazard: Not Classified

Section 12: Ecological Information

12.1 Toxicity

Silica (7631-86-9)	
LC50 fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachy danio rerio [static])
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)

12.2 Persistence and degradability

No additional information available

12.3 Bio accumulative potential

Zinc stearate (557-05-1)	
Log Pow	1.2

Silica (7631-86-9)	
BCF fish 1	No bioaccumulation expected

12.4 Mobility in soil

No additional information available

12.5 Other adverse effects

Effect on ozone layer:	No additional information available
Effect on the global warming:	No known ecological damage caused by this product.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Waste disposal recommendations:	Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport Information

Department of Transportation (DOT)
In accordance with DOT
Not a dangerous good as defined in transport regulations

Section 15: Regulatory information

15.1 US Federal regulations

Aluminum oxide (1344-28-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 - Emission Reporting	1.0 % (fibrous forms)
Zinc stearate (557-05-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Silica (7631-86-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2 US State regulations

Silica (7631-86-9)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	

Formaldehyde (50-00-0)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	

Aluminum oxide (1344-28-1)
U.S. - Massachusetts - Right to Know List U.S. - Minnesota - Hazardous Substance List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Zinc stearate (557-05-1)
U.S. - Massachusetts - Right to Know List U.S. - Minnesota - Hazardous Substance List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Silica (7631-86-9)
U.S. - Massachusetts - Right to Know List U.S. - Minnesota - Hazardous Substance List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

Section 16: Other information

Full text of H-phrases:	
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure. Target organs: lungs, skeleton.
H350	May cause cancer
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction