MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION
Product Identifier: Abrasive System Division
Product Description: Cut Off Wheel with label

Dremel Cat #426, Part No. 2610930647
Dremel Cat #EZ 426, Part No. 2615400426
Dremel Cat #EZ 456, Part No. 2615400456
Dremel Cat #EZ 476, Part No. 2615400476

General Use: Designed to work well on stone, glass, ceramics, porcelain and non-ferrous metals
Manufacturer: HONGXIN GRINDING WHEEL CO., LTD.
12 Hengtong Road, Economic-Technology Zone, Nanjing Jiangsu, China 210038

2. COMPOSITION/INFORMATION ON INGREDIENT

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>C.A.S.No.</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Carbide or</td>
<td>409-21-2</td>
<td>0</td>
</tr>
<tr>
<td>Aluminum Oxide</td>
<td>1344-28-1</td>
<td>71</td>
</tr>
<tr>
<td>Cured Adhesive</td>
<td>Unknown</td>
<td>24</td>
</tr>
<tr>
<td>*Nylon Fibers or WEB</td>
<td>Unknown</td>
<td>5</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>0</td>
</tr>
</tbody>
</table>

* Chemical composition:
- SiO2: 67%
- AlO3: 7%
- Na2O: 12%
- CaO: 9%
- MgO: 4%
- Others: 1%

1-1. Label w/coating ingredient:
- Label material: Pure Wood Pulp, hard wood, and coarse finish.
- Printing(coating): paleographic printing
- Priming material/ingredient:
  - Epoxy resin
  - Urea formaldehyde resin
  - Ethylene glycol monobutyl ether: <25ppm
  - Xylene: <100ppm
  - Iso-butanol: <50ppm

2. PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
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<td>PH</td>
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APPEARANCE AND ODOR
Nonwoven fibrous handpad Impregnated with abrasive particles which are bonded together with cured resinous binders.

3. FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th></th>
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<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>·········</td>
<td></td>
</tr>
<tr>
<td>Flammable Limits- LEL</td>
<td>·········</td>
<td></td>
</tr>
<tr>
<td>Flammable Limits- UEL</td>
<td>·········</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>·········</td>
<td></td>
</tr>
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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
Product is not considered hazardous in shipping, storage, or handling according to the criteria of the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However observe precautions for the dust generated by the user.

POTENTIAL HEALTH EFFECTS:

Inhalation:
No adverse health effects are expected from inhalation exposure.

Eye Contact:
Eye contact is not expected to occur during normal use of the product. Mechanical Eye Irritation:
Signs/Symptoms can include irritation, redness, scratching of the cornea and tearing. Dust creating by cutting, grinding, sanding, or machining may cause eye irritation. Dust creating by cutting, grinding, sanding, or machining may cause eye irritation.

Skin Contact:
No adverse health effects are expected from skin contact. Mechanical skin irritation: signs/symptoms can include itching and redness.

Ingestion:
No hazard anticipated through ingestion in normal industrial use.

Chronic:
Suspect Cancer Hazard (contains silica), Risk of cancer depends on duration and level of exposure to respirable dust

4. FIRST AID MEASURES

INHALATION:
If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

EYE CONTACT:
Immediately flush eyes with plenty of water for 15 minutes. If abrasive particles are not removed by flush, obtain medical attention.

SKIN CONTACT:
Wash with soap and water. Wash clothing daily, imbedded abrasive particles can abrade skin resulting in irritation.

INGESTION:
Swallowing less than an ounce will not cause significant harm. For larger amounts do not induce vomiting, but give two 12 ounce glasses of water and obtain medical advise.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not applicable
Flammable Limits: Not applicable
Autoignition Temperature: Not applicable

Extinguishing Media: Water, carbon dioxide, dry chemical, foam
Special Fire Fighting Procedures:
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

Unusual Fire and Explosion Hazards: Not applicable

NFPA HAZARD CODES: Health: 1, Fire: 0, Reactivity: 0, Unusual Reaction Hazard: none

6. ACCIDENTAL RELEASE MEASURES
Sweep or scoop up material for reuse or reclaim if possible; otherwise place in a disposal container for proper disposition. Do not flush to sewers or waterways unless authorized to do so by appropriate government official.

7. HANDLING AND STORAGE
Storage Temperature: Ambient
General: Keep out of sun and away from heat sources, as product may melt. Observe all safeguards for container desidue until cleaned or destroyed

8. EXPOSURE CONTROL/PERSONAL PROTECTION
Engineering Controls:
Local exhaust ventilation should be provided to maintain the airborne exposure to personnel below the OSHA PEL and ACGIH TWA during handling and use

Personal Protection/Respirator:
Where engineering controls cannot be provided a NIOSH/MSHA approved respirator for dust's having a TWA not less than 0.05 MG/M3 should be used during buffing operation's. Respiratory protection is usually not required during normal storage and handling

Protective Clothing:
For normal handling of unused product wear safety glasses and observe normal good hygiene, such as frequent washing of exposed areas and a daily change and laundering of clothing. During buffing the use of a face shield, cloth gloves, and cloth apron is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

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10. STABILITY AND REACTIVITY
Stability: Stable
Incompatibility: Materials/conditions to avoid: Not Applicable
Hazardous Polymerization: Hazardous polymerization will not occur.
Hazardous Decomposition Products: No hazardous decomposition products are expected during normal use of this product. However, during flaming conditions or excessive heating the following may be emitted: Carbon Monoxide, Carbon Dioxide, Oxides of nitrogen, cyanides, formaldehyde

11. TOXICOLOGICAL INFORMATION
Eye Protection: Wear safety glassed with side shields.
Use protective glasses and/or face shield as recommended in ANSI Standard Z87.1.
Skin Protection: Not Applicable

Recommended Ventilation:

Provide appropriate local exhaust for grinding, cutting or sanding cured material.

If exhaust ventilation is not adequate, use appropriate respiratory protection.

Use particulate collection systems.

Respiratory Protection:

Avoid breathing of dust created by cutting, sanding or grinding.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminant and in accordance with OSHA regulations: half-mask dust respirator, full-face dust respirator.

Prevention of Accidental Ingestion: Do not Ingest.

Recommended Storage: Not Applicable

Fire and Explosion Avoidance: Not Applicable

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<td>MG/M3</td>
<td>TWA</td>
<td>ACGIH</td>
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<td>15</td>
<td>MG/M3</td>
<td>TWA</td>
<td>OSHA</td>
<td></td>
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* Skin Notation: Listed substances indicated with "Y" under Skin refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

Source of Exposure Limit Data:
- ACGIH: American Conference of Governmental Industrial Hygienists
- OMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- None: None Established

12. ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

Recommended Disposal: Incinerate in an industrial or commercial facility. Dispose of waste product is a sanitary landfill.

Environmental Data: Not determined.

Regulatory Information:

Volatile Organic Compounds: Not Applicable

Volatile Organic Compounds less H2O & Exempt Solvents: Not Applicable

Since regulations vary, consult applicable regulations or authorities before disposal.

U.S. Hazardous Waste Number = None (Not U.S. EPA Hazardous)

EPCRA Hazard Class:

Fire Hazard: No  Pressure: No  Reactivity: No  Acute: Yes  Chronic: No

14. TRANSPORTATION INFORMATION

Proper Shipping Name: Cutoff Wheel w/label

Hazardous Label Required: NONE
15. REGULATORY INFORMATION
TSCA (Toxic Substance Control Act): All components of this product are listed on the TSCA Inventory.
SARA TITLE III (Superfund Amendments and Reauthorization Act):
302 Extremely Hazardous Substance’s: NONE
311 Hazard Categorization: Acute - Chronic X Fire - Pressure - Reactive - Not Established
312 is the action for the Annual Reporting of SARA 311
313 Reportable Ingredients: NONE

CALIFORNIA Proposition 65 Ingredients: SILICA - See Section 2
MICHIGAN Critical Materials: Not determined
NEW JERSEY Environmental Hazardous Substance List: Not determined
PENNSYLVANIA Hazardous Substance: Not determined
PENNSYLVANIA Environmental Hazardous Substance: Not determined
CANADIAN WHMIS: The workplace Hazardous Materials Information System Classification for this product is: Class D, Div 2, Sub div B, Eye/Skin Irritant
CPR: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) HAZARDOUS PRODUCTS ACT See CERCLA information above

16. OTHER INFORMATION
This Information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. WE MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether our product is fit for a particular purpose and suitable for user’s method of use or application. Given the variety of factors that can affect the use and application of our product, some of which are uniquely within the user’s knowledge and control. It is essential that the use evaluate the our product to determine whether it is fit for a particular purpose and suitable for user’s method of use or application.