

# Material Safety Data Sheet (MSDS)

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- a. Product type : Coated Abrasive Product (XA345)
- b. Manufacturer : DEERFOS CO.,LTD
- c. The department of writer : R&D (Research and Development) Center
- d. Written by : MIN-HO KIM (Mr.)
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## 2. HAZARDS IDENTIFICATION

- a. The hazard identification is based on a formalistic procedure as the hazard statements of the ingredients
- b. The hazard statements of the ingredients are summarized under section 3.
- c. A greater hazard is the exposure to the dust/fumes from the material or coatings.
- d. Most of the dust generated during grinding must be evaluated.

## 3. COMPOSITION /INFORMATION ON INGREDIENTS

| Composition                       | CAS No     | Conc. (%) | Classification acc. OSHA Hazard Communication Standard, 29 CFR 1910.1200.                 |  |
|-----------------------------------|------------|-----------|---|--|
|                                   |            |           | Hazard classes / hazard categories  | Hazard statements                            |
| ALUNDUM                           | 1344-28-1  | 28        |   |  |
| CALCIUM CARBONATE, NATURAL        | 1317-65-3  | 12        |   |  |
| WOLLASTONITE(Ca(SiO3))            | 13983-17-0 | 7         |   |  |
| PHENOL, POLYMER WITH FORMALDEHYDE | 9003-35-4  | 26        | Carc. 1B<br>Acute Tox. 3<br>Acute Tox. 3<br>Acute Tox. 3<br>Skin Corr. 1B<br>Skin Sens. 1 | H350<br>H301<br>H311<br>H331<br>H314<br>H317 |
| PE / Cotton                       | -          | 26        |   |  |
|                                   | -          | 1~2       |   |  |

※ Reference

- H350 : May cause cancer
- H301 : Toxic if swallowed
- H311 : Toxic in contact with skin
- H331 : Toxic if inhaled

H332 : Harmful if inhaled

H314 : Causes severe skin burns and eye damage

H317 : May cause an allergic skin reaction

H372 : Causes damage to organs through prolonged or repeated exposure

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#### 4. FIRST AID MEASURES

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a. Eye Contact

- Do not let the victim rub his eyes.
- Gently rinse the affected eyes with clean water for at least 15 minutes.
- Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

b. Skin Contact

- Do not absorbed through skin.(may cause abrasions)
- Obtain first aid or medical assistance, if needed.

c. Inhalation

- Remove to fresh air.
- Apply artificial respiration as needed.
- Obtain first aid or medical assistance.

d. Ingestion

- Obtain first aid or medical assistance, if needed.

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#### 5. FIRE FIGHTING MEASURES

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a. Extinguishing media

- Dry chemical powder, carbon dioxide, water should be used fires.
- Use extinguishing medias appropriate to the source of the fire.

b. Special fire fighting procedures

- Backing & resin binder will burn or decompose, use respiratory protection.

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#### 6. ACCIDENTAL RELEASE MEASURES

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No special measures required.

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#### 7. HANDLING AND STORAGE

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a. Keep temperature at 0°C - 40°C

b. Keep humidity at 30-60%

c. In use, do not smoke or eat

d. Avoid rough handling or dropping

e. Protect against physical damage

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#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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a. Control parameters

- Hazardous dust of the workpiece material may be generated during sanding operations.
- National regulations for dust exposures limit values have to be taken into consideration.
- Observe the regional official regulations.

| Substance      | CAS-N°    | Agency | Threshold limits                                 |
|----------------|-----------|--------|--|
| alpha- Alumina | 1344-28-4 | OSHA   | TWA: 15mg/m <sup>3</sup> (total dust)            |
|                |           |        | TWA: 15mg/m <sup>3</sup> ( respirable fraction ) |
|                |           | CMRG   | TWA : 1fiber/cm <sup>3</sup>                     |
| Formaldehyde   | 50-00-0   | ACGIH  | TWA: 0.1mg/m <sup>3</sup>                        |
|                |           |        | STEL : 0.3 mg/m <sup>3</sup>                     |
|                |           | OSHA   | TWA : 0.75 mg/m <sup>3</sup>                     |
|                |           |        | STEL : 2 mg/m <sup>3</sup>                       |
|                |           | NIOSH  | TWA : 0.016 mg/m <sup>3</sup>                    |

※ Reference

ACGIH : American Conference of governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor-Occupational Safety and Health Administration

NIOSH : National Institute

TWA : Time-Weighted- Average

STEL : Short Term Exposure Limit

- b. As needed, approved dust respirator.
- c. Wear protective eye glasses or chemical safety goggles.
- d. No precautions other than clean body covering clothing should be needed.
- e. As needed, hearing protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- a. Physical state, form : Solid
- b. Color : Brown
- c. Odor : None
- d. Boiling point : N/A
- e. Melting point : N/A
- f. Solubility in water : N/A
- g. Vapor pressure : N/A
- h. Specific gravity : N/A

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## 10. STABILITY AND REACTIVITY

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- a. This material is stable.
- b. Hazardous decomposition and polymerization will not occur.
- c. Decomposition products : In use, dust and decomposing resin system fumes are generated. In most cases, the material removed from the work piece will be significantly greater than the coated abrasive product components.

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## 11. TOXICOLOGICAL INFORMATION

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- a. Dust may cause respiratory irritaion
- b. Rubbing product across the skin may cause mechanical irritation or abrasions.
- c. Dust particles may cause abrasive injury to the eyes.
- d. Acute Toxicity

|                 |            |                             |
|-----------------|------------|-----------------------------|
| Aluminium Oxide | Oral       | > 5000 mg/kg (LD50, rat)    |
|                 | Inhalation | > 7.6 mg/L/h (LC50, rat)    |
| Formaldehyde    | Oral       | > 5000 mg/kg (LD50, rat)    |
|                 | Inhalation | > 0.578 mg/L/4h (LC50, rat) |
|                 | Dermal     | > 270 mg/kg (LD50, rabbit)  |

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## 12. ECOLOGICAL EFFECTS

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- a. This substance is not biodegradable.
- b. This substance is not bioaccumulate.
- c. This substance is not fish toxicity.

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## 13. DISPOSAL CONSIDERATION

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This combustible material may be burned in a chemical incinerator equipped with on afterburner and scrubber.

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## 14. TRANSPORT INFORMATION

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No relevant information found

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## 15. REGULATORY INFORMATION

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California Proposition 65 :

 **WARNING** : This product can expose you to Formaldehyde, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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## 16. OTHER INFORMATION

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- a. References
  - Chemical substances of unknown or variable composition complex reaction products and biological material.
  - Coated abrasives modern tool of industry.
- b. Other
  - The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof ; however, DEERFOS CO.,LTD. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.
  - Please consult DEERFOS CO.,LTD. for further information.
- c. Revision Date : 17. July. 2018
- d. Revision Number : 3