

Material Safety Data Sheet

1. Product and Company identification

- A. Product Name: UA231
- B. Recommended use of the chemical and restrictions on use
 - Recommended use: Coated Abrasives. Used for sanding materials.
 - Restrictions on use: Use only for intended purpose, Sanding.
- C. Manufacturer/Supplier/Distributor Information
 - Manufacturer: Dae Myung Abrasives Co.,LTD.
 - Address: Bugukgil 107-6 Yeonsoo-myeon, Sejong, South Korea
 - Emergency phone number: 82-44-867-1134~5

2. Hazards identification

- A. Hazard Risk Classification: N/A.
- B. Label elements including precautionary statements
 - Symbol: N/A.
 - Signal Word: N/A.
 - Hazard Risk Statement: N/A.
 - Precautionary Statement
 - Prevention: N/A.
 - Opposition: N/A.
 - Storage: N/A.
 - Abolition: Contaminated coated abrasives should be disposed according to Local Waste Control laws.
- C. Other Hazard Risks which are not included in the classification criteria
 - Eye contact: Signs / symptoms may include pain, redness, tearing and corneal abrasion.
 - Skin contact: Signs / symptoms may include abrasion, redness, pain and itching.
 - Inhalation: Dust from grinding, sanding or machining may cause irritation of the respiratory system. Signs / symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

- Ingestion: No health effects are expected, but not recommended to eat.

3. Composition/Information on ingredients

Component	Material	CAS No.	Percent (%)
Bonding Resin	Urethane Resin	9009-54-5	10~30%
Abrasives Grain	Aluminum Oxide	1344-28-1	15~40%
Backing	Nylon	N/A	5~20%
	Urethane FILM	9009-54-5	20~50%
	Polyurethane FOAM	9009-54-5	10~30%

4. First aid measures

- Eye contact: Not possible, due to the form of the product.
- Skin contact: No harmful effects known.
- Inhalation: Not possible, due to the form of the product.
- Ingestion: Not likely, due to the form of the product; if necessary contact physician.
- Indication of immediate medical attention and notes for physician: Not available.

5. Fire-Fighting measures

- Suitable (and unsuitable) extinguishing media
 - Use normal fire extinguishing agent or sprinkle with little amount of water.
- Specific hazards arising from the chemical
 - N/A
- Special protective equipment and precautions for fire-fighters
 - Do not inhale the substance or the product of combustion.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures: N/A.
- Environmental precautions and protective procedures: N/A.

C. Methods and materials for containment and cleaning up: N/A.

7. Handling and storage

- A. Precautions for safe handling: N/A.
- B. Conditions for safe storage (including any incompatibilities)
- Keep the materials out of direct sunlight.
 - Do not place the materials on ground and concrete floor.
 - Avoid humid place and heating element such as heater and radiator.
 - Keep it in condition of Temperature, 0°C~40°C and Humidity, 30%~60%.

8. Exposure controls & personal protection

- A. Control parameters: N/A.
- B. Appropriate Engineering Controls: Ventilator
- Local Ventilation System: Use general dilution ventilation and / or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and / or control dust, fume, or airborne particles.
 - Electric Precipitator: Use when there are more atmospheric pollutants than the allowable limit
- C. Personal protective equipment
- Respiratory protection: Use respiratory protective equipment.
 - Eye protection: Wear protective goggles or face shield.
 - Hand protection: Wear protective gloves.
 - Hearing protection: Use hearing protection.
 - Note: Hazardous dust of the work piece material may be generated during grinding and/or sanding operation National regulations for dust exposure limit values have to be taken into consideration

9. Physical and chemical Properties

1. Appearance	Solid
2. Odor	N/A
3. Odor threshold	N/A

4. pH	N/A
5. Melting point / Freezing point	N/A
6. Initial boiling point and boiling range	N/A
7. Flashing point	N/A
8. Evaporation	N/A
9. Flammability (solid, gas)	N/A
10. Upper/lower flammability or explosive limits	N/A
11. Vapor pressure	N/A
12. Solubility	N/A
13. Vapor density	N/A
14. Relative density	N/A
15. Partition coefficient(n-octanol/water)	N/A
16. Auto-ignition temperature	N/A
17. Decomposition temperature	N/A
18. Viscosity	N/A
19. Formula mass	N/A

10. Stability and Reactivity

- A. Chemical stability and possibility of hazardous reactions: Stable.
- B. Conditions to avoid: None
- C. Incompatible material: Strong acids, Strong bases & Strong oxidizing agents may modify the mechanical characteristics of the products and create safety hazards when used on machines.
- D. Hazardous decomposition products: In use, dust and decomposing odors may be generated. In most cases, the material removed from the workplace will be significantly greater than the coated abrasives components.

11. Toxicological Information

- A. Information on the likely routes of exposure
 - Inhalation: N/A.
 - Ingestion: N/A.

- Skin contact: N/A.
- Eye contact: N/A.

B. Health hazards information

- Acute toxic: Not determined.
- Skin corrosive/irritant: Not determined.
- Serious eye damage/eye irritation: Not determined.
- Respiratory sensitization: Not determined.
- Skin sensitization: Not determined.
- Carcinogenicity: Not determined.
- Germ Cell Mutagenicity: Not determined.
- Reproductive toxicity: Not determined.
- Specific target organ toxicity(single exposure): Not determined.
- Specific target organ toxicity(repeated exposure)
- Aspiration hazard: Not determined.

12. Ecological Information

- A. Aquatic and terrestrial ecotoxicity: Not determined.
- B. Persistence and degradability: Not determined.
- C. Bioaccumulate potential: Not determined.
- D. Mobility in soil: Not determined.
- E. Other adverse effects: Not determined.

13. Disposal Considerations

- A. Disposal method: Follow relevant local regulations.
- B. Disposal precaution: Refer to #8. Exposure controls & personal protection.

14. Transport Information

- A. UN number: N/A.
- B. UN proper shipping name: N/A.
- C. Transport hazard class: N/A.
- D. Packing group: N/A.
- E. Marine pollution: N/A.

- F. Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises:
N/A.

15. Regulatory information

- A. Industrial safety and Health Act: N/A.
- B. Toxic Chemical Control Act: N/A.
- C. Dangerous Material Safety Control Act: N/A.
- D. Wastes Management Act: N/A.
- E. Other requirements in domestic and other countries: N/A.

16. Other Information

- A. Issuing date: 2020.08.03
- B. Revision number and date: -
- C. Information source and references
 - Korea Occupational Safety & Health Agency (<http://www.kosha.or.kr>)
 - National Institute of Environmental Research(<http://ncis.nier.go.kr>)
- D. Other
 - All material may prevent unknown hazard and should be used in caution:
 - Although certain hazards are described herein, we cannot guarantee that these the only hazards which exist.