

MATERIAL SAFETY DATA SHEET

1. IDENTITY

: COATED ABRASIVES ALUMIUM OXIDE

2. Trade Name: AOP18

3. MATERIAL IDENTIFICATION

A. Name of Manufacture: DAE SUNG ABRASIVE CO., LTD.

B. ADDRESS: RM 604 HYO BONG BLDG

223 IP JEONG-DONG CHUNG-KU

SEOUL KOREA

C. PREPARED BY : JAE SUN KIM

D. Charge of Section: General Affairs Section

E. Telephone Number : 82 2 2263 3311~3

F. Fax Number : 82 2 2263 3314

G. REVISION DATE : April, 2004

F. Revision No : 0

4. COMPOSITION AND INFORMATION ON INGREDIENTS

A. Classification: Mixture

B. Chemical Name: N/A

C. Synonym : N/A

D. Ingredients and composition

| Ingredients | | Composition | Composition % | CAS. NO |
|------------------|-------|--------------------------------|---------------|----------|
| Resin | AOP18 | Phenol Resin | 21 | - |
| Abrasives | AOP18 | Al ₂ O ₃ | 22 | - |
| Filler | AOP18 | CaCO ₃ | 14 | 471-34-1 |
| Backing Material | AOP18 | PES | 26 | - |
| OTHERS | AOP18 | | 1-2 | - |

5. HAZADOS IDENTIFICATION

Not Applicable

6. FIRST AID MEASURES

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

- * Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible, cutting them off if necessary.
- * wash the affected area under tepid running water using a mild soap.

C. Inhalation

10. EXPOSURE CONTROL AND PERSONAL PROTECTION

- A. Control parameters: NOT ESTABLISHED
- B. For most conditions, no respiratory protection should be needed: how ever, in dust.
- 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.

11. PHYSICAL AND CHEMICAL PROPERTIES

- A. Physical state, form: Solid
- B. Color: Black
- C. Odor: None
- D. Boiling point: Not available
- E. Melting point: Not available
- F. Solubility: 5-6%/25°C
- G. Vapor pressure: Not available

12. STABILITY AND REACTIVITY

- A. This material is stable.
- B. Hazardous decomposition and polymerization will not occur.
- C. Decomposition products: Toxic fumes of carbon monoxide, carbon dioxide, sulfur oxides nitrogen oxides.

13. TOXICOLOGICAL INFORMATION

No relevant information found

14. DISPOSAL CONSIDERATION

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

15. REGULATORY INFORMATION

The chemical company is not able to check up the regulatory information in regard to these substances in your Country or region, therefore, we request this matter would be filled by your responsibility.

Remove the victim from the contamination immediately to fresh air.

D. Ingestion

Not Applicable

7. EXPLOSIVE AND FIRE FIGHTING METHOD

A. Extinguishing media

* Dry chemical powder, carbon dioxide, water, foam should be used fires.

* Use extinguishing media appropriate to surrounding fire conditions.

B. MEASURES

- Toxic gases will form upon combustion.

- Apply water from a safe distance to cool and protect surrounding area.

- During fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

8. ACCIDENTAL RELEASE MEASURE

* Shut off all sources of ignition.

* Carefully sweep up and remove.

9. HANDLING AND STORAGE

A. Keep at temperature at 0°C - 40°C

B. Keep at humidity at 30-60%

C. When using do not smoke or food

D. Avoid rough handling or dropping

E. Protect against physical damage