

## **ALKYL KETENE DIMER EMULSION MATERIAL SAFETY DATA SHEET**

### **1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY**

- a. Trade name: ALKYL KETENE DIMER EMULSION(AKD emulsion)
- b. Use of substance/ preparation
- Industry sector: Paper making
  - Type of use: Paper making agent
- c. Identification of the company:  
AMAZON CHEMICALS LIMITED  
Add.: Room 1305, Huichuan Edifice, Binhai New Area, Tianjin, China  
Emergency contact: Roland  
Tel.: +86 15822453075  
Email: [roland@amazon-chem.cn](mailto:roland@amazon-chem.cn)

### **2. COMPOSITION /INFORMATION ON INGREDIENT**

Product Description: Alkyl Ketene Dimer Emulsion  
Product Code: AKD emulsion 15%  
Solid Content: 15%  
CAS No.: 144245-85-2  
EINECS No.: 284-932-5

### **3. HAZARDS IDENTIFICATION**

- a. Hazard classification: Product is not dangerous cargo
- b. Label elements including precautionary statements
- Pictograms: Not available
  - Signal words: Not available
  - Hazard statements: Not available
  - Precautionary statements: Not available
- c. Other hazards which do not result in classification (e.g. dust explosion hazard): Not available

### **4. FIRST-AID MEASURE**

- a. Eye contact: Wear goggles. Wash eyes with plenty of water, obtain medical help if necessary.
- b. Skin contact: Use hand gloves. Flush skin with water or shower, and obtain medical help if necessary.
- c. Ingestion: Rinse mouth with water, obtain medical help if necessary.
- d. Inhalation: Remove to fresh air. Obtain medical help if necessary.
- e. Most important acute and delayed symptoms/effects: Not available
- f. First aid and notes for physicians: Not available

### **5. FIRE FIGHTING**

- a. Suitable (and unsuitable) extinguishing media  
Use dry powder, water mist, foam, carbon dioxide for extinguishing.
- b. Specific hazards arising from the chemical (e.g. hazardous combustion products)  
Irritating and highly toxic gases may be generated by thermal decomposition or combustion, such as carbon monoxide, carbon dioxide, carboxylic acid and aldehyde.
- c. Special protective equipment and precautions for fire-fighters  
Wear a self-containing breathing apparatus and full protective gear.

## 6. LEAK EMERGENCY TREATMENT

a. Measures required for personal protection and protective equipment

Use rubber gloves, air respirator, goggles, safety shoes and lab coat. Remove contaminated clothing and wash hands between breaks and at end of duty hours.

b. Measures required for environment protection: Not available

c. Clean-up and removal method

Remove sources of ignition, ventilate area and collect leakage in sealable containers.

## 7. OPERATE DISPOSE AND STORAGE

a. Precautions for safe handling

Use leak-proof and sealed bags. Store on pallets in well ventilated dry locations at ambient temperature away from direct sunlight.

b. Conditions for safe storage (including incompatibilities)

Keep in a cool and dry place, avoid extreme heat and cold. Avoid direct fire, strong alkalis, strong oxidizers and water.

## 8. CONTACT CONTROL AND PERSONAL PROTECTION

a. Exposure limits of the chemical substance, biological exposure limits and etc.

None established.

b. Appropriate engineering controls

Use normal precautionary measures for handling chemicals.

c. Personal protective equipment

- Protection of respiratory system: Wear air respirator
- Eye protection: Wear goggles
- Hand protection: Wear protective gloves
- Body protection: Wear protective clothing, safety shoes

## 9. PHYSICAL CHEMICAL PROPERTY

Form: emulsion

Color: white

Odor: not

PH: 2-5

Melting point/freezing point: not

Initial boiling point and boiling range: not

Flash point: > 200°C

Evaporation rate: not

Flammability (solid, gas): not

Upper/lower flammable or explosive limits: not

Vapor pressure: not

Density: 1.02-1.1g/cm<sup>3</sup>

Specific gravity: not

Partition coefficient : n-octanol/water: not

Auto-ignition temperature: not

Decomposition temperature: not

Viscosity: ≤ 100

Molecular weight: 495.6~532.9

## 10. STABILITY AND REACTIVITY

a. Chemical stability: Stable at room temperature in closed containers under normal storage and handling conditions.

- b. Possibility of hazardous reactions: Not available
- c. Conditions to avoid (e.g. static discharge, shock, vibration, etc.): Incompatible materials
- d. Incompatible materials: Oxidizing agents.
- e. Hazardous decomposition products: Not available

### 11. TOXICOLOGICAL INFORMATION

- a. Information on the likely routes of exposure
  - (Respiratory system): Not available
  - (Oral): LD50 > 5 g / kg (rat)
  - (Eye, skin): Not available
- b. Delayed and immediate effects and chronic effects from short or long term exposure
  - Acute toxicity (All routes of possible exposure shall be mentioned.): Not available
  - Skin corrosion/irritation: Not available
  - Serious eye damage/eye irritation: Not available
  - Respiratory sensitization: Not available
  - Skin sensitization: Not available
  - Carcinogenicity: Not available
  - Germ cell mutagenicity: Not available
  - Reproductive toxicity: Not available
  - Specific target organ toxicity (single exposure): Not available
  - Specific target organ toxicity (repeated exposure): Not available
  - Aspiration hazard: Not available
- c. Numerical measures of toxicity (acute toxicity estimation (ATE), etc.): Not available

### 12. ECOLOGY INFORMATION

- a. Aquatic and terrestrial ecotoxicity: Product should not get into water bodies without treatment.
- b. Persistence and degradability: Not readily biodegradable
- c. Bioaccumulation: Not available
- d. Mobility in soil: Not available
- e. Other adverse effects: Not available
- f. Acute fish toxicity: Not available
- g. Chronic bacteria toxicity: Not available

### 13. DISPOSAL CONSIDERATIONS

- a. Disposal methods: In accordance with local and national regulations
- b. Precautions for disposal (including the disposal method of contaminated containers and packages)

Product and packaging should be disposed off in accordance with the local, state and federal regulations.

### 14. TRANSPORT INFORMATION

- a. UN number: Not available
- b. UN proper shipping name: Not available
- c. Transport hazard classes: Not available
- d. Packing group, if applicable: Not available
- e. Marine pollutant (yes/no): No
- f. Information on any special precautions, which a user needs to be aware of, or needs to comply with in connection with transport: Not available

### 15. REGULATORY INFORMATION

- a. Industrial Safety and Health Law: Not available
- b. Toxic Chemical Control Law: Not available
- c. Dangerous Substance Safety Management Law: Not available
- d. Wastes Management Law: Not available
- e. Other regulations in domestic and foreign countries

Observe prescribed Federal, State and Local measures for dealing with chemicals listed on EINECS (EU), TSCA-CSI (USA), DSL (Canada), AICS (Australia), ENCS (Japan), ECL (Korea), PICCS (the Philippines) and IECSC (China).

## 16. OTHER INFORMATION

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The contents and format of Material Safety Data Sheets for Chemicals is written according to REGULATION (EC) No 1907/2006, 1999/EC and 67/548/EEC.

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\*\*\*\*\*The end.