

# MATERIAL SAFETY DATA SHEET

**K-Grades:** K-20, 22, 23, 31, 33, 37, 38, 41, 42, 50, 51, 61, 70, 71, 72, 73, 74, 75,  
76, 77, 80, 81, 83, 90, 91, 92, 93, 94,  
EXP-1432, EXP-1460, EXP-1461, EXP-1464, EXP-1465, EXP 1466  
Revised: February 09, 2007  
MSDS# 01059

## Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Kaneka Texas Corporation**  
**6161 Underwood Road**  
**Pasadena, Texas 77507**

**Emergency Phone Number:** (281) 474-1836

**Technical Information:** (281) 447-0755

**Product Name** Kane Ace K-Blends: K-20, 22, 23, 31, 33, 37, 38, 41, 42, 50, 51, 61, 70, 71, 72,  
73, 74, 75, 76, 77, 80, 81, 83, 90, 91, 92, 93, 94, EXP-1432, EXP-1460, EXP-1461, EXP-1464,  
EXP-1465; EXP-1466

**Synonyms** Acrylic Resin

**Chemical Family** Impact Modifier Resin

## Section 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration (%)
Methylmethacrylate/Acrylic Copolymers	Trade Secret	>98%
Residual Monomers	Trade Secret	<400ppm

### OSHA Regulatory Status

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and made available for employees and other users of this product.

## Section 3. HAZARDS IDENTIFICATION

### Emergency Overview

- A white powder with a mild acrylic ester odor.
- In limited circumstances dust may form explosive mixtures in air; minimize dust generation. (See Section 5)
- If heated, fumes irritating to eyes and respiratory tract may develop.

### Potential Health Effects

- May cause irritation to eyes, skin and respiratory tract.
- Avoid contact with eyes.
- Observe good personal hygiene practices.

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### **Eye**

- As with any solid, may cause mechanical irritation; eyes to tear.
- Vapors from heated product may cause irritation.

### **Skin**

- Possible, but unlikely, irritation and/or dermatitis.
- May cause irritation and itching to moist skin.

### **Ingestion**

- Ingestion of large quantities may cause temporary stomach and abdominal pain, nausea and vomiting, diarrhea, convulsions.

### **Inhalation**

- Treat as nuisance dust.
- Odorous fumes from normal processing may result in temporary nausea, headache and dizziness.
- See Section 8 for exposure limit information.

### **Medical Conditions Aggravated by Exposure**

- No applicable information available.

### **Potential Environmental Effects**

- May be hazardous to aquatic life if product is released to open waters. Carefully vacuum or sweep up material and place in a suitable container for disposal. Avoid creating a dusty atmosphere. Dampen spills with water to reduce dust.

<b>Section 4. FIRST AID MEASURES</b>
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### **First Aid Procedures**

- Obtain medical attention.

#### **Eye**

- Immediately flush eyes with running water for at least 15 minutes.
- Contact physician for further instructions if irritation persists.

#### **Skin**

- If skin irritation occurs, remove contaminated clothing and shoes and flush affected area with water, then soap and water.
- Contact physician if irritation persists.

#### **Ingestion**

- Induce vomiting only as directed by medical personnel.

#### **Inhalation**

- If over exposure occurs, remove to fresh air.
- If not breathing, give artificial respiration (CPR).
- If breathing is difficult, give oxygen.

#### **Note to physicians**

- No additional, applicable information available.

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### Section 5. FIRE FIGHTING MEASURES

**Flash Point** Not applicable

**Method** Not applicable

**Autoignition Temperature** Greater than 380 °C

**Flash point** N/A

**Flammable limits:** Unknown

**NFPA Classification**

**Health** 1 (Slight)

**Reactivity** 0 (None)

**Fire** 2 (Moderate)

**Specific Hazard** Not Rated

**Extinguishing Media** Water spray, foam or ABC dry chemicals

**Flammable Properties** In solid form, material is combustible and burns with intense heat.

**Firefighting Instructions**

- Avoid scattering burning material or creating dust hazard with water stream. A solid stream of water could create airborne dust and then possibly cause a dust explosion.
- Avoid eye and skin contact.
- Do not breathe fumes or inhale dust. If material is heated sufficiently to cause copolymer degradation, vapors irritating to the respirator tract may form. These vapors may contain various component monomers. This potential indicates the need to wear SCBA approved by MSHA/NIOSH.
- Use water spray to keep containers cool and control heat.
- Firefighters should wear full bunker gear and MSHA/NIOSH approved SCBA.
- Firefighting equipment should be thoroughly decontaminated after use.

**Hazardous Combustion**

- Irritating fumes may develop when product is heated. These fumes may contain monomers.

**Unusual Fire and Explosion Hazards**

- Dust can form explosive mixtures in the air.

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### **Section 6. ACCIDENTAL RELEASE MEASURES**

#### **Spill Response**

- May be hazardous to aquatic life if released to open waters. Carefully vacuum or sweep up material and place in a suitable container for disposal as solid waste.

#### **Personal Protection**

- Appropriate protective equipment must be worn when handling a spill of this material. See Section 8 for recommendations.
- If exposed to material during clean-up operations, see Section 4 for actions to follow.

#### **Procedures**

- Floor may be slippery; use care to avoid falling.
- Eliminate all ignition sources.
- Ventilate the spill area without creating dusty conditions.
- Avoid breathing dust. (See Section 8 for PPE) Dampen spilled material with water to minimize dust.
- Transfer spilled material to containers suitable for recovery or disposal.

### **Section 7. HANDLING AND STORAGE**

#### **Handling**

- When transferring, avoid creating dust.
- Minimize chance of static spark; ground all equipment.
- Systems must be designed to safely handle and convey a material capable of a dust explosion.
- Avoid contact with eyes, skin and clothing.
- Wash thoroughly after handling.
- Use adequate ventilation.
- Avoid breathing dust. Processing vapors from heating the material may contain monomers. Wear MSHA/NIOSH approved respiratory protection.
- Emptied container retains product residue.
- Observe all label safeguards until container is cleaned, reconditioned or destroyed.
- Do not spill into public water systems or waterways.

#### **Storage**

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- Store in original container in cool, dry area.
- Keep containers closed.
- Do not store near high temperature, boilers, heaters, hot pipes, flames or oxidizing agents.
- Keep area ventilated.
- Since material can burn, consider limiting indoor storage to areas equipped with appropriate automatic sprinkler systems.
- Improper storage conditions may shorten safe storage time.
- Do not store in direct sunlight.

<b>Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**Engineering Controls**

- During processing operation which involves heating, ventilate area thoroughly to avoid exposure to vapors that may occur. These vapors may contain component monomers of the material and exposure is to be avoided.

**Personal Protective Equipment**

- Respiratory
  - Use MSHA/NIOSH approved nuisance dust respirator in dusty conditions.
- Skin
  - If skin irritation results, nitrile or neoprene gloves will prevent further skin contact.
  - Wash skin thoroughly after handling.
- Eye
  - It is recommended that contact lenses not be worn when working with this product due to the potential for eye irritation from course product.
  - Have eye flushing equipment available in the vicinity.
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COMPOUND	OSHA PEL		ACGIH TLV	
	TWA	Ceiling	TWA	STEL
Particulates not otherwise classified (Total)	15 mg/m <sup>3</sup>	None	10 mg/m <sup>3</sup>	None
Particulates not otherwise classified (Respirable fraction)	5 mg/m <sup>3</sup>	None	3 mg/m <sup>3</sup>	None

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### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

**pH** Not applicable

**Specific Gravity** 0.9-1.6 (*Water = 1*)

**Boiling Point (°C)** Not applicable

**Vapor Pressure** Not applicable

**Freezing/Melting Point (°C)** Not applicable

**Percent Volatile** 1.5% maximum

**Vapor Density (air =1)** Not applicable

**Physical State** Solid

**Solubility in Water** Insoluble in water

**Appearance and Odor** White Powder with mild acrylic ester odor

See Section 5 for additional properties

### Section 10. STABILITY AND REACTIVITY

#### Stability

- Stable under specified conditions. (*See Section 7*)

#### Hazardous Polymerization

- Will not occur

#### Incompatibility

- Avoid contact with acids, alkalies and strong oxidizing agents.

#### Hazardous Decomposition Products

- Thermal decomposition produces carbon monoxide, carbon dioxide and various oxidized and non-oxidized hydrocarbons.

#### Conditions to Avoid

- See Section 7, Handling and Storage

### Section 11. TOXICOLOGICAL INFORMATION

#### Product Listed as a Carcinogen or Potential Carcinogen by

**NTP** No

**IARC** No

**OSHA** No

**Other** No

#### Acute Toxicity

- No data is available on this polymer.
- Similar polymers have an LD50 Mouse > 10,000 mg/Kg.

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### **Section 12. ECOLOGICAL INFORMATION**

- No applicable information available.

### **Section 13. DISPOSAL CONSIDERATIONS**

- Recover, reclaim or recycle when practical.
- Dispose of material as solid waste in a suitable closed container.
- The material, as supplied, is not a RCRA hazardous waste.
- Federal, State and Local regulations should be observed when disposing.

### **Section 14. TRANSPORT INFORMATION**

#### **US DOT Hazard Class**

- Non-regulated

### **Section 15. REGULATORY INFORMATION**

#### **Workplace Classifications**

- This product is not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).
- This product is not a “controlled product” under the Canadian Workplace Hazardous Materials Information System (WHMIS).

#### **TSCA**

- All components of this product are listed on the U.S. EPA Toxic Substances Control Act (TSCA) Inventory

#### **CERCLA**

- Reportable quantities of trace ingredient in polymer might be exceeded for a release greater than 5,000,000 lbs of the product.

#### **DSL**

- All components of this product are listed on Environment Canada’s Domestic Substance List (DSL).

#### **SARA TITLE III**

##### **Reportable Quantity**

- Reportable quantities of trace ingredient in polymer might be exceeded for a release greater than 5,000,000 lbs of the product.

**Section 302/304 Extremely Hazardous Substances** None

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**Section 311 Hazard Category**

- None  
Acute no    Chronic no    Fire no    Pressure no    Reactive no

**Section 313 Toxic Chemicals**

- None greater than deminimus

**Section 16. OTHER INFORMATION**

**DISCLAIMER**

Kaneka Texas Corporation believes that such information is accurate and reliable as of the date of this Material Safety Data Sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Since conditions of storage, handling and use are beyond our control, no warranties of merchantability or fitness for a particular purpose are expressed or implied. This MSDS is not intended as a license to operate under, or recommendation to infringe on, any patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

**Prepared By:**            Safety, Health & Environment Department  
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