



# SAFETY DATA SHEET

Issue Date 07-Jan-2016

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Version 1.1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Kane Ace M-732

### Other means of identification

**Product Code** 105237

**UN/ID no** Not regulated

**Synonyms** Methyl methacrylate, Butadiene, Styrene Acrylic Copolymer

### Recommended use of the chemical and restrictions on use

**Recommended Use** For industrial use only.

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Kaneka North America LLC

6161 Underwood Road

Pasadena, TX 77507

Telephone: 281-447-0755

Email: Product.Stewardship@Kaneka.com

### Emergency telephone number

**Company Phone Number** 281-474-1814

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

#### **Emergency Overview**

**Not classified**

#### **Hazard statements**

None

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** powder

**Physical state** Solid

**Odor** Slight acrylic Ester

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

May form combustible dust concentrations in air

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**
**Synonyms**

Methyl methacrylate, Butadiene, Styrene Acrylic Copolymer.

**Chemical Family**

Impact Modifier Resin.

Chemical Name	CAS No	Weight-%	Trade Secret
Acrylic Polymers	Proprietary	>98.5	*
Water	7732-18-5	<1.5	*

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**
**Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.

**Skin contact**

Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Consult a physician if necessary.

**Inhalation**

Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult. Call a physician.

**Ingestion**

Do NOT induce vomiting. If swallowed, call a poison control center or physician immediately.

**Most important symptoms and effects, both acute and delayed**
**Symptoms**

May cause allergic skin reaction.

**Indication of any immediate medical attention and special treatment needed**
**Note to physicians**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Small Fire**

Dry chemical or CO<sub>2</sub>.

**Large Fire**

Water spray or fog. Move containers from fire area if you can do it without risk.

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire. Remove all sources of ignition. Keep away from heat.

**Specific hazards arising from the chemical**

Dusts or fumes may form explosive mixtures in air.

**Hazardous combustion products** Carbon oxides. Hydrocarbons.

**Explosion data**

**Sensitivity to Mechanical Impact** Not impact sensitive.

**Sensitivity to Static Discharge**

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Move containers from fire area if you can do it without risk.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**                      Wear protective gloves/protective clothing and eye/face protection.

**Environmental precautions**

**Environmental precautions**              Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment**                Cover powder spill with plastic sheet or tarp to minimize spreading. Prevent dust cloud.

**Methods for cleaning up**                Avoid creating dust. Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal. Sweep-up or vacuum spilled solid (an explosion-proof vacuum should be used).

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling**                Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**                    Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Protect from direct sunlight. Keep from freezing.

**Incompatible materials**                Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl methacrylate 80-62-6	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 410 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m <sup>3</sup>	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m <sup>3</sup>
Styrene 100-42-5	STEL: 40 ppm TWA: 20 ppm	TWA: 100 ppm (vacated) TWA: 50 ppm (vacated) TWA: 215 mg/m <sup>3</sup> (vacated) STEL: 100 ppm (vacated) STEL: 425 mg/m <sup>3</sup> Ceiling: 200 ppm	IDLH: 700 ppm TWA: 50 ppm TWA: 215 mg/m <sup>3</sup> STEL: 100 ppm STEL: 425 mg/m <sup>3</sup>
1,3-Butadiene 106-99-0	TWA: 2 ppm	TWA: 1 ppm (vacated) TWA: 1000 ppm Butadiene (vacated) TWA: 2200 mg/m <sup>3</sup> Butadiene STEL: 5 ppm see 29 CFR 1910.1051	IDLH: 2000 ppm

**Appropriate engineering controls**

**Engineering Controls**                    Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Mechanical ventilation should be grounded due to potential accumulation of dusts.

#### Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	Wear protective gloves and protective clothing. Nitrile. Neoprene. Tyvec.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Odor</b>	Slight acrylic Ester
<b>Appearance</b>	powder	<b>Odor threshold</b>	No data available
<b>Color</b>	white		

<u>Property</u>	<u>No data available</u>	<u>Remarks • Method</u>
<b>pH</b>	No information available	
<b>Melting point / freezing point</b>	No information available	
<b>Boiling point / boiling range</b>	No information available	
<b>Flash point</b>	No information available	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	No information available	
<b>Lower flammability limit:</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	1.0-1.2	
<b>Water solubility</b>	Insoluble in water	
<b>Solubility in other solvents</b>	Organic Solvents (toluene, benzene, etc.)	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	460-470 °C	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	May form explosive mixtures with air	
<b>Oxidizing properties</b>	No information available	

#### Other Information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No data available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

Stable under conditions of normal temperature and pressure.

#### Chemical stability

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

#### **Conditions to avoid**

Incompatible materials. Extremes of temperature and direct sunlight.

#### **Incompatible materials**

Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

### **Information on likely routes of exposure**

<b>Product Information</b>	Irritating to eyes, skin and respiratory tract
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause irritation.
<b>Skin contact</b>	May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.
<b>Ingestion</b>	May cause irritation.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
Methyl methacrylate 80-62-6	= 7872 mg/kg ( Rat ) 8420 - 10000 mg/kg ( Rat )	5000 - 7500 mg/kg ( Rabbit ) > 5 g/kg ( Rabbit )	= 7093 ppm ( Rat ) 4 h
Styrene 100-42-5	= 1000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	= 11.7 mg/L ( Rat ) 4 h
1,3-Butadiene 106-99-0	= 5480 mg/kg ( Rat )	-	= 285 g/m <sup>3</sup> ( Rat ) 4 h

### **Information on toxicological effects**

**Symptoms** May cause an allergic skin reaction.

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Irritation</b>	Irritating to eyes and skin.
<b>Sensitization</b>	Repeated or prolonged contact may cause allergic reactions in very susceptible persons. May cause sensitization in susceptible persons.
<b>Germ cell mutagenicity</b>	None known.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>STOT - single exposure</b>	None under normal use conditions.
<b>STOT - repeated exposure</b>	None under normal use conditions.
<b>Aspiration hazard</b>	Not applicable.

**Numerical measures of toxicity - Currently there is no toxicological data available for these products. Similar polymers have an LD50 Oral-Mouse of >10,000 mg/kg**

The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Release of large quantities of these products to a terrestrial or aquatic environment may cause harm to contaminated plants and animals.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Methyl methacrylate 80-62-6	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow-through 243 - 275: 96 h Pimephales promelas mg/L LC50 flow-through 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 79: 96 h Oncorhynchus mykiss mg/L LC50 static	69: 48 h Daphnia magna mg/L EC50
Styrene 100-42-5	1.4: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.15 - 3.2: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.46 - 4.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.72: 96 h Pseudokirchneriella subcapitata mg/L EC50	19.03 - 33.53: 96 h Lepomis macrochirus mg/L LC50 static 3.24 - 4.99: 96 h Pimephales promelas mg/L LC50 flow-through 58.75 - 95.32: 96 h Poecilia reticulata mg/L LC50 static 6.75 - 14.5: 96 h Pimephales promelas mg/L LC50 static	3.3 - 7.4: 48 h Daphnia magna mg/L EC50
1,3-Butadiene 106-99-0	-	71.5: 24 h Lagodon rhomboides mg/L LC50	24.8: 96 h Daphnia magna mg/L EC50

**Persistence and degradability**

Not readily biodegradable.

**Bioaccumulation**

MATERIAL DOES NOT BIOACCUMULATE.

**Mobility in soil**

**Other adverse effects**

No data currently available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Do not reuse container.

**US EPA Waste Number**

Not applicable

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl methacrylate 80-62-6	U162	Included in waste stream: F039	-	U162

**14. TRANSPORT INFORMATION**

**DOT**

UN/ID no

Hazard Class

Not regulated

Not regulated

Not regulated

<b>Packing Group</b>	Not regulated
<b>TDG</b>	Not regulated
<b>UN/ID no</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing Group</b>	Not regulated
<b>IATA</b>	Not regulated
<b>UN/ID no</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing Group</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>UN/ID no</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing Group</b>	Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Styrene - 100-42-5	0.1
1,3-Butadiene - 106-99-0	0.1
Methyl methacrylate - 80-62-6	1.0

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21

and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Styrene 100-42-5	1000 lb	-	-	X
Methyl methacrylate 80-62-6	1000 lb	-	-	X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Styrene 100-42-5	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ
1,3-Butadiene 106-99-0	10 lb	-	RQ 10 lb final RQ RQ 4.54 kg final RQ
Methyl methacrylate 80-62-6	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals at residual levels.

Chemical Name	California Proposition 65
Styrene - 100-42-5	Carcinogen
1,3-Butadiene - 106-99-0	Carcinogen Developmental Female Reproductive Male Reproductive

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Styrene 100-42-5	X	X	X
1,3-Butadiene 106-99-0	X	X	X
Methyl methacrylate 80-62-6	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical Properties -
<b>HMIS</b>	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection X

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Revision Note

Not applicable

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet