SAFETY DATA SHEET

Issue Date 18-Apr-2018 **Revision Date** 18-Apr-2018 **Version** 3

1. IDENTIFICATION

Product identifier
Product Name Kaneka Kane Ace PA-Grades: PA-101; PA-121; PA-131

Other means of identification
Product Code RM00091
Synonyms Acrylic Polymer

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 Texas 77507 Telephone: 281-447-0755

Emergency telephone number
Company Phone Number 281-474-1836
24 Hour Emergency Phone Number 1-800-424-9300 or 703-527-3887 [Chemtrec]

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

Precautionary Statements - Prevention
Not applicable

Precautionary Statements - Response
Not applicable

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
May form combustible dust concentrations in air

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Synonyms Acrylic Polymer.
Chemical Family Processing Aid.

Chemical Name	CAS No.	Weight-%	Trade Secret
Acrylic Polymer	Proprietary	60 - 100	*
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	0.1-2	*

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 eye irritation persists: Get medical advice/attention.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Contaminated work clothing should not be allowed out of the workplace.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion Not an expected route of exposure. 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 CO2.

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. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Formaldehyde. Ethylene. Aldehydes. Acrylic acid.

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. Shelf life 36 months.

Incompatible materials Strong oxidizing agents. Amines. Alkali. caustic.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Styrene 100-42-5	STEL: 40 ppm TWA: 20 ppm	TWA: 100 ppm (vacated) TWA: 50 ppm (vacated) TWA: 215 mg/m³ (vacated) STEL: 100 ppm (vacated) STEL: 425 mg/m³ Ceiling: 200 ppm	IDLH: 700 ppm TWA: 50 ppm TWA: 215 mg/m³ STEL: 100 ppm STEL: 425 mg/m³
Butyl acrylate 141-32-2	TWA: 2 ppm	(vacated) TWA: 10 ppm (vacated) TWA: 55 mg/m³	IDLH: 113 ppm TWA: 10 ppm TWA: 55 mg/m³
Methyl methacrylate 80-62-6	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 410 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m³	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m³

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

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing. (Tyvek suit, rubber apron).

Respiratory protection 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

Physical state	Solid		
Appearance	powder	**Odor**	Slight acrylic Ester
Color	white	**Odor threshold**	No data available

Property	**No data available**	**Remarks • Method**
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	1.0-1.3	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	380 °C	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	May form explosive mixtures with air	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No data available
Density	No information available
Bulk density	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. Amines. Alkali. caustic.

Hazardous Decomposition Products
Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Styrene. Methyl methacrylates. other acrylates.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Irritating to eyes, skin and respiratory tract

Inhalation May cause irritation of respiratory tract.

Eye contact May cause irritation.

Skin contact May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.

Ingestion May cause irritation.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	= 404 mg/kg (Rat)	-	-

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

Irritation Irritating to eyes and skin.
Sensitization Repeated or prolonged contact may cause allergic reactions in very susceptible persons. May cause sensitization in susceptible persons.
Germ cell mutagenicity None known.
Carcinogenicity No information available.
Reproductive toxicity No information available.
Developmental Toxicity No information available.
STOT - single exposure None under normal use conditions.
STOT - repeated exposure None under normal use conditions.
Aspiration hazard 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
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	9: 96 h Desmodesmus subspicatus mg/L EC50 11: 72 h Pseudokirchneriella subcapitata mg/L EC50 4.29 - 12.5: 96 h Pseudokirchneriella subcapitata mg/L EC50	0.6 - 1.9: 96 h Brachydanio rerio mg/L LC50 semi-static 5.1: 96 h Brachydanio rerio mg/L LC50 flow-through 3.4: 96 h Pimephales promelas mg/L LC50 2.2: 96 h Lepomis macrochirus mg/L LC50 static 3.8 - 6.6: 96 h Oncorhynchus mykiss mg/L LC50 static 0.7: 96 h Pimephales promelas mg/L LC50 static	0.63: 48 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 This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging Do not reuse container.

US EPA Waste Number Not applicable

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

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

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Styrene - 100-42-5	Carcinogen

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

NFPA	**Health hazards** 2	**Flammability** 1	**Instability** 0	**Physical and Chemical Properties** -
HMIS	**Health hazards** 2	**Flammability** 1	**Physical hazards** 0	**Personal protection** X

Prepared By Sean Landry Product Stewardship Associate 281-291-2140
Issue Date 18-Apr-2018
Revision Date 18-Apr-2018
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