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Material Safety Data Sheet

H-0165, H-018, H-2165, H-218, H-305, H-408, H-516A, H-5165, H-526, H-527,
H-627, H-711, H-727, H-8165, H-827, H-829

Name used on label: Kane Ace CPVC

Manufacturer's Address: Kanegafuchi Chemical Industry Co.

No. 2-4, 3-Chome, Nakanoshima

Kita-Ku, Osaka JAPAN

Tele. (713) 840-1751/Emer. (713) 474-7084

Chemical name: Chlorinated Polyvinyl Chloride

Chemical family/use: Vinyl Chloride Polymer

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INGREDIENTS

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Identity	Cas No.	Wt%	TLV
Chlorinated Polyvinyl Chloride	68648-82-8	>98%	NE, see
Residual Aliphatic Chlorinated Hydrocarbons		<0.1%	Respiratory Protection Section

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PHYSICAL DATA

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Boiling Point: N/A	Freezing Point: N/A
Specific Gravity: 1.5 - 1.6	Vapor Pressure: N/A
Vapor Density: N/A	Solubility in water: Insoluble
Volatiles: <0.3 wt%	Evaporation rate: N/A
Molecular weight: N/A	pH: N/A
Appearance and odor: White Powder - Practically odorless	

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FIRE AND EXPLOSION DATA

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Flash Point: N/A	Autoignition temp: ND
Flammable limits: LEL = N/A	UEL = N/A
Extinguishing media: Water spray, avoid scattering burning material or creative dust hazard with water stream, or dry chemical. (ABC Type.)	
Special fire fighting procedures: Avoid eye and skin contact. Do not breathe fumes. Do not inhale dust. Wear positive pressure self-contained breathing apparatus (SCBA). Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source. In enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. Use water spray to keep containers cool.	

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Unusual fire and explosion hazards: Hydrogen chloride, a combustion product, has a corrosive effect on many metals. Affected equipment surfaces and unprotected structural elements of building should be washed with a detergent based water solution to remove corrosive deposits as soon as possible after depositions have occurred.

ENVIRONMENTAL INFORMATION

Spill response: Carefully vacuum up material and place in a suitable container for disposal. Avoid creating a dusty atmosphere.

Recommended disposal: Dispose of material as solid waste in a closed container. Federal, State and Local regulations should be observed when disposing.

HEALTH HAZARD DATA

Eye Contact: May cause irritation.

Skin Contact: May cause irritation and/or dermatitis.

Inhalation: Treat as nuisance dust. Avoid breathing processing vapors which will irritate respiratory tract. Under any condition (processing, decomposition, etc.), symptoms such as coughing, tearing, and irritation should be regarded as potentially hazardous and measures taken to avoid exposure.

Acute toxicity: No known effects.

Suggested first aid:

Eyes: In case of contact, immediately flush eyes with flowing water for at least 15 minutes, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention.

Skin: Wash area with mild soap and water.

Inhalation: Move exposed individual to fresh air. Call a physician.

REACTIVITY DATA

Stability: Stable

Conditions to avoid: Take care not to hold resin hot for extended times to avoid decomposition.

Incompatibility (Materials to avoid): Avoid overheating. Avoid contact with acetal, acetal copolymers and amine containing

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materials during processing. If processed together, these materials may be mutually destructive and degrade rapidly. Prevent cross contamination of feedstocks. Thoroughly purge and mechanically clean processing equipment to prevent these materials from coming in contact with each other.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, various oxidized and non-oxidized hydrocarbons, hydrogen chloride, chlorinated hydrocarbons.

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SPECIAL PROTECTION INFORMATION

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Ventilation: Local exhaust is recommended. Virtually all thermoplastic materials will emit fumes and/or vapors when heated to processing temperatures. The concentration of these emissions in the workplace air will depend upon variables such as the specific compound formulation, amount processed, processing method and temperature and the effectiveness of exhaust ventilation. Always use CPVC compound under well-ventilated conditions and avoid continued or prolonged breathing of process vapors. Processing fume condensate may include toxic contaminants and should be periodically removed from exhaust hoods, ductwork and other surfaces. Rubber gloves should be worn during cleanup operations to prevent skin contact.

Respiratory protection: Use NIOSH approved high efficiency dust respirator when dusty conditions prevail. No TLV-TWA has been established for this dust. The AGCIH recommend that nuisance particulates be limited to 10 mg/M3, total dust. Abnormal conditions such as equipment malfunction, use of improper equipment or procedures, or hangup or stagnation of compound during processing may cause decomposition. If general dilution or local exhaust ventilation is not adequate to keep fume or vapor concentrations at non-irritating levels, then employees involved in removing decomposing material must be provided with suitable air supplied respirators, such as NIOSH/MSHA approved positive pressure self-contained breathing apparatus.

Eye and face protection: Chemical workers goggles. Do not wear contact lenses.

Other clothing and equipment: An eyewash and emergency shower should be readily available. Launder contaminated clothing before reuse.

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SPECIAL PRECAUTIONS

Precautionary label information: Caution - May cause irritation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Storage and handling: Store in original container in cool, dry area. Sprinklered warehouse areas are recommended. CPVC compound by itself will not support combustion but other combustible contents (e.g. wooden pallets, cardboard boxes, etc.) can provide sufficient fuel to force CPVC to burn. Other Precautions: Ventilate area properly to avoid unnecessary exposure to resulting gases which might be hazardous. Do not store near high temperature boilers, heaters, pipes or open flames. For industrial use only.

TRANSPORTATION

Department of transportation (DOT)
DOT proper shipping name: Not required.
DOT hazard class: Not required.
DOT label: Not required.
DOT ID #: Not required.

NFPA RATING

Health: 2
Flammability: 1
Reactivity: 0

MISCELLANEOUS

Prepared by Environmental & Process Safety Department

The information set forth herein has been gathered from standard reference materials and/or Kanegafuchi/KTC test data and to our best knowledge and belief accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. Kanegafuchi/KTC makes no warranties,

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express or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process and, therefore, assumes no responsibility. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer.

MATERIAL SAFETY DATA SHEET

PRODUCTION IDENTIFICATION

Manufacturer's Address	KANEGAFUCHI CHEMICAL INDUSTRY CO., LTD. 2-4, 3 Chome, Mekanoshima, Kita-Ku, Osaka, Japan	Telephone No. (713) 840-1751 Emergency No. (713) 474-7084 Toll Free 1-800-526-3223
Trade Name	Kane Ace B-56	
Chemical Name & Synonyms	MBS Resin	
Chemical Family	Impact Modifier Resin	
Formula	MMA-Bd-St Acrylic Copolymer	

HAZARDOUS INGREDIENTS

(None listed by NTP Annual Report on Carcinogens)

PAINTS, PRESERVATIVES, & SOLVENTS	TLV	ALLOYS AND METALLIC COATINGS	TLV
Pigments	N/A	Base Metals	N/A
Catalyst	N/A	Alloys	N/A
Vehicle	N/A	Metallic Coatings	N/A
Solvents	N/A	Filler Metal Plus Coating	
Additives	N/A	or Core Flux	N/A
Others	N/A	Others	N/A
Hazardous mixtures of other liquids, solids or gases.			N/A

PHYSICAL DATA

Boiling Point (°F)	N/A	Specific gravity (H2O=1)	0.9 - 1.0
Vapor Pressure (mmHg)	N/A	Percent Volatile by Volume (%)	Less than 1.5%
Vapor Density (AIR=1)	N/A	Evaporate rate	N/A
Solubility in Water	Non-Soluble		
Appearance and Odor	Fine White Powder with Slight Acrylic Ester Odor		

FIRE AND EXPLOSION HAZARD DATA

Flash point Fenwell ASTM D1929
 Autoignition Temperature 460-470°C
 Extinguishing Media
 Special Fire Fighting Procedures
 Unusual Fire and Explosion Hazards

Flammable Limits Uel ND
 Le1 25g/m³cloud
 Water or Dry Chemical Agent (ABC Type)
 Water or Dry Chemical Agent (ABC Type)

At concentration of 25 g/m³ or greater, there is a possibility of dust explosion. Dust generation should be minimized and every ignition source such as fire, open flame, static sparks, etc., even in closed pipe line equipment, should be strictly prohibited as with all organic matters.

HEALTH HAZARD DATA

Threshold Limit Value
 Effects of Overexposure

Not established.
 No reports of over-exposure irritations.
 This material will not indicate any acute toxicity.

Emergency and First Aid Procedures

If contact with eyes, flush with water.
 If contact with skin, flush with water.
 If ingestion occurs, contact physician.

REACTIVITY DATA

Stability
 Incompatability
 (Materials to avoid)
 Hazardous Decomposition Products

Stable
 Avoid contact with strong Oxidizing agents.
 Odorous fumes may result under normal processing.
 Thermal degradation is caused by high temperature.

Hazardous polymerization will not occur.

SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
 Clean spilled area with suction or vacuum equipment.

Waste Disposal Method:
 By Landfill or by incineration if allowed.

SPECIAL PROTECTION INFORMATION

Respiratory Protection	Recommend dust mask be used when handling.
Ventilation	Proper ventilation reduces unnecessary exposure to degradation gases under processing.
Protective Gloves	Recommend gloves.
Eye Protection	Recommend goggles.
Others	None.

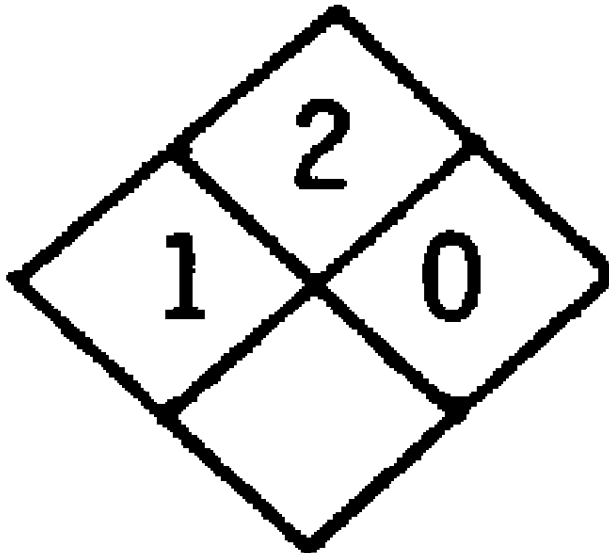
SPECIAL PRECAUTIONS

Precautions to be taken handling and storing: Store in original container in cool, dry area. When transferring, avoid creating dust. Ground all equipment to avoid static spark. Other precautions: Ventilate area properly to avoid unnecessary exposure to resulting gases which might be hazardous. Do not cause dust clouds or static sparks. Do not store near high temperature boilers, heaters, or pipes.

NFPA RATING

HAZARD RATING		<u>FLAMMABILITY</u>		<u>REACTIVITY</u>
4 = Severe				
3 = Serious				
2 = Moderate				
1 = Slight				
0 = Minimal				

HEALTH



REACTIVITY

Date: May 15, 1986

Note: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer.