



Sweetwater Technologies

P.O. Box 1473, Temecula, CA 92593
Telephone (909) 676-2443 FAX (909) 676-2913

Material Safety Data Sheet

Section I - Identification

Trade Name: SW 110	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 110 is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.		
Date of Issue:	07/06/97	Prepared by: Marie D'Abato
Supersedes:		



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 104	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium Chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.08 - 1.09
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5-7
Appearance and Odor: Colorless to light amber, slight to no odor, clear with an appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: >212F	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxidizers		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide and/or carbon monoxide

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	N/A
Symptoms of Overexposure:	EYE CONTACT: prolonged or repeated eye contact may cause irritation. SKIN CONTACT: prolonged or repeated skin contact may cause irritation.
Primary Routes of Entry:	Skin
Toxicity Information:	
Emergency First Aid Procedures	
Skin:	Flush immediately with soap and water for at least 15 minutes.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of fluids and call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required when ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Rubber
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
Date of Issue:	07/06/97	Supercedes:	Prepared by:	Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 104HV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.08 - 1.09
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5.0-8.0
Appearance and Odor: Straw colored, viscous liquid with amine or musty odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, carbon dioxide or dry chemical to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying with water if exposed to fire.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxides, iron, mild steel, copper alloys or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide/monoxide, hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	
Symptoms of Overexposure: EYE CONTACT: Prolonged or repeated eye contact may cause irritation. SKIN CONTACT: Prolonged or repeated skin contact may cause irritation.	
Primary Routes of Entry:	Skin
Toxicity Information:	Considered non-toxic in normal use.
Emergency First Aid Procedures	
Skin: Flush immediately with soap and water for at least 15 minutes.	
Eyes: Flush with water at least 15 minutes with eyelids open. Call a physician.	
Ingestion: Material is not expected to be harmful by ingestion. If swallowed, do not induce vomiting. Give victim a glass of water.	
Inhalation: Not expected to be harmful. Remove patient to fresh air.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Respiratory protection is not normally needed since volatility and toxicity are low. Can use NIOSH approved respirator.	
Ventilation: General ventilation is recommended.	Protective Gloves: Wear impervious gloves.
Eye Protection: Wear chemical splash goggles or face mask.	Other Protective Equipment: Eye wash and safety shower stations are recommended.

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Avoid runoff into storm sewers and ditches which lead to waterways. Dike and absorb spill with inert materials such as clays, sand, earth, if unable to recycle.
Waste Disposal Method: Dispose of solidified material in accordance with federal, state and local or other applicable laws and regulations.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin and clothing. Avoid storage temperatures below freezing. Product may stratify.		
Date of Issue: 07/06/97	Supersedes:	Prepared by: Marie D'Abato

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SW 104HV



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 102VHV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03 - 1.04
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5.0-8.0
Appearance and Odor: Straw colored, viscous liquid with amine or musty odor			

Section IV - Fire and Explosion Data

Flash Point Method: >212F, closed cup	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, carbon dioxide or dry chemical to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: Self contained breathing apparatus should be worn. Keep containers cool by spraying with water if exposed to fire.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxidizers, iron, mild steel, copper, copper alloys		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide/monoxide, hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	N/A
Symptoms of Overexposure:	EYE CONTACT: Prolonged or repeated eye contact may cause irritation. SKIN CONTACT: Prolonged or repeated skin contact may cause irritation.
Primary Routes of Entry:	Skin
Toxicity Information:	Not toxic
Emergency First Aid Procedures	
Skin: Flush immediately with soap and water for at least 15 minutes.	
Eyes: Flush with water at least 15 minutes with eyelids open. Call a physician.	
Ingestion: Not known to be harmful by ingestion. If swallowed do not induce vomiting, give water, and consult a physician.	
Inhalation: Not expected to be harmful. Remove patient to fresh air.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Respiratory protection is not normally needed since volatility and toxicity are low. Can use NIOSH approved respirator.	
Ventilation: General ventilation is recommended.	Protective Gloves: Wear impervious gloves.
Eye Protection: Wear chemical splash goggles or face mask.	Other Protective Equipment: Eyewash and safety shower stations are recommended.

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Avoid runoff into storm sewers and ditches which lead to waterways. Dike and absorb spill with inert materials such as clays, sand, earth, if unable to recycle.
Waste Disposal Method:	Dispose of solidified material in accordance with federal, state and local or other applicable laws and regulations.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin and clothing. Avoid storage temperatures below freezing. Product may stratify.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato

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SW 102VHV



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 102HV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03 - 1.04
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5.0-8.0
Appearance and Odor: Straw colored, viscous liquid with amine or musty odor			

Section IV - Fire and Explosion Data

Flash Point Method: >212F, closed cup	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, carbon dioxide or dry chemical to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: Self contained breathing apparatus should be worn. Keep containers cool by spraying with water if exposed to fire.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxidizers, iron, mild steel, copper, copper alloys		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide/monoxide, hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	N/A
Symptoms of Overexposure:	EYE CONTACT: Prolonged or repeated eye contact may cause irritation. SKIN CONTACT: Prolonged or repeated skin contact may cause irritation.
Primary Routes of Entry:	Skin
Toxicity Information:	Not toxic
Emergency First Aid Procedures	
Skin:	Flush immediately with soap and water for at least 15 minutes.
Eyes:	Flush with water at least 15 minutes with eyelids open. Call a physician.
Ingestion:	Not known to be harmful by ingestion. If swallowed do not induce vomiting, give water, and consult a physician.
Inhalation:	Not expected to be harmful. Remove patient to fresh air.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Respiratory protection is not normally needed since volatility and toxicity are low. Can use NIOSH approved respirator.	
Ventilation: General ventilation is recommended.	Protective Gloves: Wear impervious gloves.
Eye Protection: Wear chemical splash goggles or face mask.	Other Protective Equipment: Eyewash and safety shower stations are recommended.

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Avoid runoff into storm sewers and ditches which lead to waterways. Dike and absorb spill with inert materials such as clays, sand, earth, if unable to recycle.
Waste Disposal Method:	Dispose of solidified material in accordance with federal, state and local or other applicable laws and regulations.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin and clothing. Avoid storage temperatures below freezing. Product may stratify.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato

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SW 102HV



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 115	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 115 is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
Date of Issue:	07/06/97	Supercedes:	Prepared by:	Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 115HV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl.

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 115HV is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
Date of Issue:	07/06/97	Supercedes:	Prepared by:	Marie D'Abato

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SW 115HV



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Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: Will not occur	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl.

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 115VHV is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
Date of Issue:	07/06/97	Supercedes:	Prepared by:	Marie D'Abato

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SW 115VHV



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Section I - Identification

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Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl.

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 115XHV is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
Date of Issue:	07/06/97	Supercedes:	Prepared by:	Marie D'Abato

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SW 115XHV



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 135VHV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium Chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.08 - 1.09
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5-7
Appearance and Odor: Colorless to light amber, slight to no odor, clear with an appreciable suspended matter.			

Section IV - Fire and Explosion Data

Flash Point Method: >212F	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxidizers		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide and/or carbon monoxide.

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	N/A
Symptoms of Overexposure:	EYE CONTACT: prolonged or repeated eye contact may cause irritation. SKIN CONTACT: prolonged or repeated skin contact may cause irritation.
Primary Routes of Entry:	Skin
Toxicity Information:	
Emergency First Aid Procedures	
Skin:	Flush immediately with soap and water for at least 15 minutes.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of fluids and call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required when ventilation is acceptable.	
Ventilation: Area should be well ventilated	Protective Gloves: Rubber
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower.

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato

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SW 135VHV



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 1028	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl.

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 1028 is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 112	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl.

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 112 is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 110HV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 110HV is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
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SW 110HV



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 110VHV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 110VHV is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
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SW 110VHV



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 110XHV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 110XHV is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
Date of Issue:	07/06/97	Supercedes:	Prepared by:	Marie D'Abato

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SW 110XHV



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 112HV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 112HV is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato

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SW 112HV



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 112VHV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 112VHV is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
Date of Issue:	07/06/97	Supercedes:	Prepared by:	Marie D'Abato



Sweetwater Technologies

P.O. Box 1473, Temecula, CA 92593
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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 112XHV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Polydimethyldiallylammonium Chloride	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous mixtures of other liquids, solids, or gases.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Infinite	pH Neat	5.0-7.0
Appearance and Odor: Straw colored liquid with a characteristic odor			

Section IV - Fire and Explosion Data

Flash Point Method: >100C closed cup	Flammable Limits Not flammable	LEL N/A	UEL N/A
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Oxidizing agents, iron, mild steel, copper or aluminum		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide or monoxide, and HCl

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	Not available
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Primary Routes of Entry:	Skin
Toxicity Information:	SW 112XHV is not listed in NIOSH's Registry of Toxic Effects 1981 - 1982. No known toxicity information is available at this time.
Emergency First Aid Procedures	
Skin:	Wash affected area with soap and water for 5 minutes. If irritation develops, call a physician.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of water. Call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required where ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Impervious
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
Date of Issue:	07/06/97	Supercedes:	Prepared by:	Marie D'Abato

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SW 112XHV



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 102	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03 - 1.04
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5.0-8.0
Appearance and Odor: Straw colored, viscous liquid with amine or musty odor			

Section IV - Fire and Explosion Data

Flash Point Method: >212F, closed cup	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, carbon dioxide or dry chemical to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: Self contained breathing apparatus should be worn. Keep containers cool by spraying with water if exposed to fire.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxidizers, iron, mild steel, copper, copper alloys		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide/monoxide, hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	N/A
Symptoms of Overexposure:	EYE CONTACT: Prolonged or repeated eye contact may cause irritation. SKIN CONTACT: Prolonged or repeated skin contact may cause irritation.
Primary Routes of Entry:	Skin
Toxicity Information:	Not toxic
Emergency First Aid Procedures	
Skin:	Flush immediately with soap and water for at least 15 minutes.
Eyes:	Flush with water at least 15 minutes with eyelids open. Call a physician.
Ingestion:	Not known to be harmful by ingestion. If swallowed do not induce vomiting, give water, and consult a physician.
Inhalation:	Not expected to be harmful. Remove patient to fresh air.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Respiratory protection is not normally needed since volatility and toxicity are low. Can use NIOSH approved respirator.	
Ventilation: General ventilation is recommended.	Protective Gloves: Wear impervious gloves.
Eye Protection: Wear chemical splash goggles or face mask.	Other Protective Equipment: Eyewash and safety shower stations are recommended.

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Avoid runoff into storm sewers and ditches which lead to waterways. Dike and absorb spill with inert materials such as clays, sand, earth, if unable to recycle.
Waste Disposal Method:	Dispose of solidified material in accordance with federal, state and local or other applicable laws and regulations.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin and clothing. Avoid storage temperatures below freezing. Product may stratify.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 102VHV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03 - 1.04
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5.0-8.0
Appearance and Odor: Straw colored, viscous liquid with amine or musty odor			

Section IV - Fire and Explosion Data

Flash Point Method: >212F, closed cup	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, carbon dioxide or dry chemical to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: Self contained breathing apparatus should be worn. Keep containers cool by spraying with water if exposed to fire.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxidizers, iron, mild steel, copper, copper alloys		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide/monoxide, hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	N/A
Symptoms of Overexposure:	EYE CONTACT: Prolonged or repeated eye contact may cause irritation. SKIN CONTACT: Prolonged or repeated skin contact may cause irritation.
Primary Routes of Entry:	Skin
Toxicity Information:	Not toxic
Emergency First Aid Procedures	
Skin: Flush immediately with soap and water for at least 15 minutes.	
Eyes: Flush with water at least 15 minutes with eyelids open. Call a physician.	
Ingestion: Not known to be harmful by ingestion. If swallowed do not induce vomiting, give water, and consult a physician.	
Inhalation: Not expected to be harmful. Remove patient to fresh air.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Respiratory protection is not normally needed since volatility and toxicity are low. Can use NIOSH approved respirator.	
Ventilation: General ventilation is recommended.	Protective Gloves: Wear impervious gloves.
Eye Protection: Wear chemical splash goggles or face mask.	Other Protective Equipment: Eyewash and safety shower stations are recommended.

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Avoid runoff into storm sewers and ditches which lead to waterways. Dike and absorb spill with inert materials such as clays, sand, earth, if unable to recycle.
Waste Disposal Method: Dispose of solidified material in accordance with federal, state and local or other applicable laws and regulations.	

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin and clothing. Avoid storage temperatures below freezing. Product may stratify.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato

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SW 102VHV



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 102XHV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.03 - 1.04
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5.0-8.0
Appearance and Odor: Straw colored, viscous liquid with amine or musty odor			

Section IV - Fire and Explosion Data

Flash Point Method: >212F, closed cup	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, carbon dioxide or dry chemical to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: Self contained breathing apparatus should be worn. Keep containers cool by spraying with water if exposed to fire.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxidizers, iron, mild steel, copper, copper alloys		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide/monoxide, hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	N/A
Symptoms of Overexposure:	EYE CONTACT: Prolonged or repeated eye contact may cause irritation. SKIN CONTACT: Prolonged or repeated skin contact may cause irritation.
Primary Routes of Entry:	Skin
Toxicity Information:	Not toxic
Emergency First Aid Procedures	
Skin:	Flush immediately with soap and water for at least 15 minutes.
Eyes:	Flush with water at least 15 minutes with eyelids open. Call a physician.
Ingestion:	Not known to be harmful by ingestion. If swallowed do not induce vomiting, give water, and consult a physician.
Inhalation:	Not expected to be harmful. Remove patient to fresh air.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Respiratory protection is not normally needed since volatility and toxicity are low. Can use NIOSH approved respirator.	
Ventilation: General ventilation is recommended.	Protective Gloves: Wear impervious gloves.
Eye Protection: Wear chemical splash goggles or face mask.	Other Protective Equipment: Eyewash and safety shower stations are recommended.

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Avoid runoff into storm sewers and ditches which lead to waterways. Dike and absorb spill with inert materials such as clays, sand, earth, if unable to recycle.
Waste Disposal Method:	Dispose of solidified material in accordance with federal, state and local or other applicable laws and regulations.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin and clothing. Avoid storage temperatures below freezing. Product may stratify.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato

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SW 102XHV



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 135VLV	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium Chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.08 - 1.09
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5-7
Appearance and Odor: Colorless to light amber, slight to no odor, clear with an appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: >212F	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxidizers		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide and/or carbon monoxide

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	N/A
Symptoms of Overexposure:	EYE CONTACT: prolonged or repeated eye contact may cause irritation. SKIN CONTACT: prolonged or repeated skin contact may cause irritation.
Primary Routes of Entry:	Skin
Toxicity Information:	
Emergency First Aid Procedures	
Skin:	Flush immediately with soap and water for at least 15 minutes.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of fluids and call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required when ventilation is acceptable.	
Ventilation: Area should be well ventilated.	Protective Gloves: Rubber
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.				
Date of Issue:	07/06/97	Supercedes:	Prepared by:	Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: SW 135	CAS Number: 26062-79-3
Chemical Name and Synonyms: Poly(Dimethyldiallylammonium Chloride)	
Chemical Name: Cationic Polymer	Formula: (C ₈ H ₁₆ NCI) _n

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Contains no hazardous ingredients.		

Section III - Physical Data

Boiling Point (C)	>100C	Specific Gravity	1.08 - 1.09
Vapor Pressure (mm Hg)	20-30mm @ 25C	Percent Volatile by Volume	
Vapor Density (Air = 1)		Evaporation Rate	
Solubility in Water	Completely soluble	pH Neat	5-7
Appearance and Odor: Colorless to light amber, slight to no odor, clear with an appreciable suspended matter.			

Section IV - Fire and Explosion Data

Flash Point Method: >212F	Flammable Limits Not flammable	LEL	UEL
Extinguishing Media: Not expected to burn unless heated to dryness. Residue may ignite. Use water, foam, or carbon dioxide to extinguish.			
Special Fire, Hazard, and Fire Fighting Procedures: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: None
Incompatibility, Materials to Avoid: Strong oxidizers		Hazardous Decomposition Products: Oxides of nitrogen, carbon dioxide and/or carbon monoxide.

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	N/A
Symptoms of Overexposure:	EYE CONTACT: prolonged or repeated eye contact may cause irritation. SKIN CONTACT: prolonged or repeated skin contact may cause irritation.
Primary Routes of Entry:	Skin
Toxicity Information:	
Emergency First Aid Procedures	
Skin:	Flush immediately with soap and water for at least 15 minutes.
Eyes:	Flush eyes with copious amounts of water for 15 minutes.
Ingestion:	Drink plenty of fluids and call a physician.
Inhalation:	Move individual to an uncontaminated area and administer oxygen if necessary. Avoid breathing mists or vapors.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): None required when ventilation is acceptable.	
Ventilation: Area should be well ventilated	Protective Gloves: Rubber
Eye Protection: Chemical splash goggles	Other Protective Equipment: Eye bath and safety shower.

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:	Dike and absorb spills with inert material such as sand and dirt. Shovel into drums for disposal. Do not allow spill to enter waterways. Spill area may be slippery.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal in an approved landfill.

Section IX - Special Precautions

Precautions to be taken in handling and storing: Keep container closed when not in use. Empty container should not be reused until cleaned.		
Date of Issue:	07/06/97	Supercedes:
		Prepared by: Marie D'Abato