



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: CP 1339	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	27	1 mg./m ³
Orthophosphoric Acid	40	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.56 - 1.66
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin:	Flush with plenty of water for at least 15 minutes.
Eyes:	Immediately flush with water. Call a physician.
Ingestion:	Call a physician.
Inhalation:	Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 1144	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	23	1 mg./m ³
Orthophosphoric Acid	45	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.56 - 1.66
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin:	Flush with plenty of water for at least 15 minutes.
Eyes:	Immediately flush with water. Call a physician.
Ingestion:	Call a physician.
Inhalation:	Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 837	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	16	1 mg./m ³
Orthophosphoric Acid	38	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.37 - 1.45
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin:	Flush with plenty of water for at least 15 minutes.
Eyes:	Immediately flush with water. Call a physician.
Ingestion:	Call a physician.
Inhalation:	Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 945	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	19	1 mg./m ³
Orthophosphoric Acid	46	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.55 - 1.65
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 36	CAS Number:
Chemical Name and Synonyms: Orthophosphate	
Chemical Name: Acidic Liquid	Formula: H3PO4

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Orthophosphoric Acid	36	1 mg/m3

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.22 - 1.24
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 21	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	44	1 mg./m ³
Orthophosphoric Acid	21	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.62 - 1.72
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 103	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	28.6	1 mg./m ³
Orthophosphoric Acid	10.7	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.35 - 1.43
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 785	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	7.85	1 mg./m ³
Orthophosphoric Acid	7.85	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.15 - 1.23
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin:	Flush with plenty of water for at least 15 minutes.
Eyes:	Immediately flush with water. Call a physician.
Ingestion:	Call a physician.
Inhalation:	Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 790	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	21.9	1 mg./m ³
Orthophosphoric Acid	8	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.26 - 1.34
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 1065	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	27.8	1 mg/m ³
Orthophosphoric Acid	6.6	1 mg/m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.31 - 1.39
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin:	Flush with plenty of water for at least 15 minutes.
Eyes:	Immediately flush with water. Call a physician.
Ingestion:	Call a physician.
Inhalation:	Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 918	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	25	1 mg./m ³
Orthophosphoric Acid	18.2	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.39 - 1.47
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supersedes:	Prepared by: Marie D'Abato



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: CP 721	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	19.4	1 mg./m ³
Orthophosphoric Acid	22	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.31 - 1.39
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supersedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 824	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	22.2	1 mg./m ³
Orthophosphoric Acid	24	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.39 - 1.47
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin:	Flush with plenty of water for at least 15 minutes.
Eyes:	Immediately flush with water. Call a physician.
Ingestion:	Call a physician.
Inhalation:	Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 728	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	19	1 mg./m ³
Orthophosphoric Acid	28	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.39 - 1.47
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 535	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	14	1 mg./m ³
Orthophosphoric Acid	36	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.39 - 1.47
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin:	Flush with plenty of water for at least 15 minutes.
Eyes:	Immediately flush with water. Call a physician.
Ingestion:	Call a physician.
Inhalation:	Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 636	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	16.5	1 mg/m ³
Orthophosphoric Acid	38	1 mg/m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.43 - 1.51
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin:	Flush with plenty of water for at least 15 minutes.
Eyes:	Immediately flush with water. Call a physician.
Ingestion:	Call a physician.
Inhalation:	Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 11	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	30.5	1 mg./m ³
Orthophosphoric Acid	5.6	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.35 - 1.43
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 12	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	33	1 mg./m ³
Orthophosphoric Acid	1	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.42 - 1.50
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 1632	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	33	1 mg./m ³
Orthophosphoric Acid	33	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.56 - 1.66
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin:	Flush with plenty of water for at least 15 minutes.
Eyes:	Immediately flush with water. Call a physician.
Ingestion:	Call a physician.
Inhalation:	Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 1236	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	26	1 mg./m ³
Orthophosphoric Acid	37	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.49 - 1.58
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 848	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	17	1 mg./m ³
Orthophosphoric Acid	49	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.51 - 1.61
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: S 444	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	52	1 mg./m ³
Orthophosphoric Acid	11	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.64 - 1.75
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supersedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 279	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	56	1 mg./m ³
Orthophosphoric Acid	9	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.70 - 1.81
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 241	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	50	1 mg./m ³
Orthophosphoric Acid	1	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.49 - 1.59
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 291	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	60	1 mg/m ³
Orthophosphoric Acid	1	

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.71 - 1.81
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	Similar to water	Evaporation Rate	Similar to water
Solubility in Water	Infinite	pH Neat	<1
Appearance and Odor: Colorless to light green or amber, slight to no odor, clear with no appreciable suspended matter			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 10	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	21	1 mg./m ³
Orthophosphoric Acid	10.7	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.21 - 1.29
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 785	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Sulfate	7.9	1 mg./m ³
Orthophosphoric Acid	7.9	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.24 - 1.32
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 824	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	8	1 mg./m ³
Orthophosphoric Acid	24	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.28 - 1.36
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 330	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	3.5	1 mg./m ³
Orthophosphoric Acid	35	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.30 - 1.38
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	Similar to Water
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato

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Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 333	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	6	1 mg./m ³
Orthophosphoric Acid	35	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.30 - 1.38
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	Similar to Water
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato



Sweetwater Technologies

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Material Safety Data Sheet

Section I - Identification

Trade Name: CP 30	CAS Number: 7779-90-0
Chemical Name and Synonyms: Zinc Orthophosphate	
Chemical Name: Acidic Liquid	Formula: Zn ₃ (PO ₄) ₂

Section II - Hazardous Ingredients

Component	%	TLV-TWA
Zinc Chloride	62	1 mg./m ³
Orthophosphoric Acid	1	1 mg./m ³

Section III - Physical Data

Boiling Point (C)	> 100C	Specific Gravity	1.75 - 1.85
Vapor Pressure (mm Hg)	Similar to water	Percent Volatile by Volume	
Vapor Density (Air = 1)	N/A	Evaporation Rate	N/A
Solubility in Water	Infinite	pH Neat	< 1
Appearance and Odor: Clear, odorless liquid			

Section IV - Fire and Explosion Data

Flash Point Method: None	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media: Not flammable			
Special Fire, Hazard, and Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel.			

Section V - Reactivity Data

Stability: Stable	Hazardous Polymerization: No	Conditions to Avoid: Treat as an acidic solution.
Incompatibility, Materials to Avoid: Metals, strong caustic materials		Hazardous Decomposition Products: Hydrogen chloride

Section VI - Health Hazard Data

Threshold Limit Value (TWA):	None established
Symptoms of Overexposure:	Irritation similar to a burn
Primary Routes of Entry:	Skin
Toxicity Information:	None established
Emergency First Aid Procedures	
Skin: Flush with plenty of water for at least 15 minutes.	
Eyes: Immediately flush with water. Call a physician.	
Ingestion: Call a physician.	
Inhalation: Remove to fresh air. Apply mouth to mouth respiration if not breathing. Get immediate medical assistance.	

Section VII - Special Protection Information

Respiratory Protection (Specify Type): Wear NIOSH approved mist respirators.	
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: Immediately cover with absorbent. Sweep up or shovel into containers and dispose with in accordance with all local, state and federal regulations.
Waste Disposal Method: In an approved landfill

Section IX - Special Precautions

Precautions to be taken in handling and storing: Avoid contact with eyes, skin or mists. Use normal personal hygiene.			
Date of Issue: 07/06/97	SW CAT:	Supercedes:	Prepared by: Marie D'Abato