Section 1. Product and Company Identification

Product Name Pinatec® 13 AA591

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
(914) 654-6800 **(914) 654-6899**
parchem.com **info@parchem.com**

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
Physical Hazards
Flammable Liquids: No hazard statement

Health Hazards
Acute Toxicity (Oral): Category 4 - Harmful if swallowed
Skin Corrosion/Irritation: Category 2 - Causes skin irritation
Serious Eye Damage/Irritation: Category 2A - Causes eye irritation
Aspiration Hazard: No hazard statement

GHS Label Elements
Pictograms:

Signal word: WARNING

Hazard and precautionary statements
GHS Hazard Statements
H303 H313 H333: May be harmful if swallowed, in contact with skin or if inhaled

GHS Precautionary Statements
P101+102+103: If medical advice is needed, have product container or label at hand. Keep out of the reach of children. Read label before use.
P202+270+280+281: Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.
P501: Dispose of contents/container: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different

locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Total VOC's: < 2%

Section 3. Composition / Information on Ingredients

Common Name Pinatec® 13 AA591
Synonym(s) MIL-A-A-59133 Type 1

COMPONENT	CAS NUMBER	CONCENTRATION
Sodium Metasilicate	6834-92-0	30 – 40%
Sodium Phosphate Monohydrate	7558-80-7	8 – 12%
Sodium Tripolyphosphate	7758-29-4	50 – 55%
Nonionic Surfactant	68131-39-5	1 – 5%

Section 4. First Aid Measures

Inhalation: Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.
Ingestion: Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately.
Eye Contact: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Skin Contact: Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.
Note To Physician: May cause irritation/burns to the mouth, throat or stomach if swallowed. After swallowing danger of stomach perforation. On inhalation: Irritation of mucous membrane, coughing and shortness of breath. All treatments should be based on observed signs and symptoms of distress in the patient. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5. Firefighting Measures

General Fire Hazards: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

Auto-ignition Temperature: NA
Extinguishing Media: Determined by surrounding material. In case of fire, use water fog, dry chemical, CO_2, or "alcohol" foam.
Special Firefighting Procedures: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Spilled product may be slippery.
Unusual Fire and Explosion Hazards: Containers may explode from internal pressure if confined to fire. Cool with water spray.

Section 6. Accidental Release Measures

Spill Procedures: Wear appropriate personal protective equipment before approaching spill site. For small spills, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance with applicable regulations.
Waste Disposal: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
RCRA Status: If discarded in its purchased form, it is not a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40 CFR 261.20-24).

Section 7. Handling and Storage

Storage: Keep in a tightly closed container, stored in a cool, dry, ventilated area below 44°C (110°F). Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Drum must not be washed out or used for other purposes.
Handling: Avoid contact with eyes, skin and clothing. Do not inhale vapors and fumes. Wash thoroughly after handling. Use only with adequate ventilation. Do not take internally. For industrial use only.

Section 8. Exposure Controls / Personal Protection

Occupational Exposure Limits
PEL: None Established
TLV-TWA: None Established

Exposure Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Protective Clothing

Eye/face protection: Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

Additional Measures: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Section 9. Physical and Chemical Properties

Boiling Point: Not Applicable
Freezing Point: NA
Flash Point: Non-flammable material
Upper Flame Limit: NA
Lower Flame Limit: NA
Vapor Pressure: ND
Vapor Density (Air=1): ND
Specific Gravity: 1.80 - 2.50
pH: NA
Solubility in Water: Complete

Volatility (including Water): None

Molecular Weight: NA
Evaporation Rate: NA
Physical State: Granular solid
Color: Granular White Solids
Odor: Bland

Section 10. Stability and Reactivity

Stability: Stable
Hazardous Decomposition: Will not occur
Incompatibility: Avoid direct contact with strong acids and organic materials. Contact with metals such as aluminum, magnesium, tin, and zinc may cause formation of flammable hydrogen gas. Precautions should be taken including monitoring the tank atmosphere for hazardous gases to ensure safety of personnel before vessel entry.
Hazardous Reactions: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).

Section 11. Toxicological Information

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present, at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Threshold Limit Value: None Established for this Product
OSHA PEL: None
Listed Carcinogen: This product IS NOT listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by OSHA.
Medical Condition Aggravated: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Respiratory system. Eyes. Skin.

Information on Acute Toxicological Effects
Oral: Ingestion may cause a burning sensation in the mouth, irritation of the lips, mouth, tongue and pharynx, and esophageal and abdominal pain, vomiting, nose bleeds, and bloody diarrhea.

Section 12. Ecological Information

Acute Toxicity - Fish: This material has exhibited slight toxicity to terrestrial organisms.
Aquatic Invertebrates: This material has exhibited slight toxicity to terrestrial organisms.
Chronic Toxicity - Fish: This material has exhibited slight toxicity to terrestrial organisms.
Aquatic Invertebrates: This material has exhibited slight toxicity to terrestrial organisms.
Toxicity to Aquatic Plants: Freshwater algae are destroyed above pH 8.5.

Persistence and Degradability
Biodegradation: The methods for determining the biological degradability are not applicable to predominately inorganic substances.

Biological Oxygen Demand: No data available
Chemical Oxygen Demand: No data available
BOD/COD Ratio: No data available

Bioaccumulative Potential: This product will not bioaccumulate due to its high solubility in water. It is considered slightly toxic to aquatic organisms unless there is a significant pH shift outside the range of 5 - 10; this change may be toxic to aquatic organisms.
Mobility in Soil: Expected to partition to water. The pH effect of this product in water is naturally reduced by the absorption of atmospheric carbon dioxide. This reduction is also effected by dilution with water and by the natural acidity of a given water body. There is no degradation of the inorganic material in waters, only loss by absorption or through chemical neutralization.
Results of PBT and mPvB Assessment: Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria. Not fulfilling vPvB (very persistent, very bioaccumulative) criteria.
Other Adverse Effects: This material is believed to persist in the environment.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

UN/NA Number: None
Proper Shipping Name: Non-Regulated
Hazard Class: None
Packaging Group: None
Letter: None
Environmental Hazard: This product is not expected to bioaccumulate due to its high solubility in water. It is considered slightly toxic to aquatic organisms unless there is a significant pH shift outside the range of 5 - 10, which may be toxic to aquatic organisms.
Reportable Quantity: None

Section 15. Regulatory Information

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This SDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD). **Important:** Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

EPA SRA Title III Chemical Listings
TSCA Status: This product is listed on the TSCA inventory. If this product is a blend, all ingredients in the product are listed on the TSCA Inventory List. Any impurities present in this product are exempt from listing.
Section 302: None
Section 304: None
Section 312: None

SARA Section 313: None
Acute: Yes (Eyes)
Chronic: No
Fire: No
Pressure: No
Reactive: No
Clean Water Act: None

IMDG (International Marine Dangerous Goods Code): Non Regulated
IATA: Non Regulated

DEA Chemical Trafficking Act: No

HMIS Rating
Health: 1
Flammability: 0
Reactivity: 0
Personal Protection: B

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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