KENRICH PETROCHEMICALS, INC.
MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND MANUFACTURER'S IDENTIFICATION

Manufacturer: Kenrich Petrochemicals, Inc.
140 East 22nd Street
P.O. Box 32
Bayonne, NJ 07002

Information Phone: 201-823-9000
Emergency Phone: 201-823-9000

Product Name: KEN-REACT® CAPS L12/L
Product Code: PSL12LF55
CAS #: MIXTURE
Chemical Family: Organo - Titanates

SECTION 2: COMPOSITION/INFORMATION ON COMPONENTS

Chemical Name: Titanium IV 2, 2 (bis 2-propenolatomethyl) butanolato, tris (dioctyl) pyrophosphato - O. . . . . .CAS# 110438-25-0. . . . . .20%
Hydrated Amorphous Silica. . . . . CAS# 112926-00-8. . . . . .11%
Polyethylene . . . . . CAS# 25087-34-7. . . . . .69%

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: Light blue pellets with no odor. It presents little or no immediate significant hazard if spilled. It presents no unusual hazard if involved in a fire, however, upon thermal decomposition it may emit toxic fumes.

Breathing: This substance has the potential of being a respiratory tract irritant.

Skin Contact: Prolonged or repeated skin contact may cause skin irritation.

Eye Contact: Contact with eyes will cause eye irritation.

Swallowing: May be harmful if swallowed.

Inhalation: There is a potential for irritation of the respiratory tract.

Long Term Health Effects: Not known.

Conditions Aggravated by Exposure: Not known.

Original MSDS: 11/27/90

1st Revision: 01/25/96
2nd Revision: 06/11/97 - 16 Point Format
3rd Revision: 02/18/02—date update
4th Revision: 11/30/06—date update

SECTION 4: FIRST AID MEASURES

Skin: Wash with soap and water. Get medical attention if irritation develops or persists.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart. Get immediate medical attention if irritation or other symptoms develop.

Swallowing: Get immediate medical attention. Never give anything by mouth to an unconscious person.

Breathing: If exposed to excessive levels of vapors or mists, remove to fresh air and get immediate medical attention if cough or other symptoms develop.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point. . . . . .Not Available
Method . . . . . .TCC
Lower Explosive Point . . . . . .Not determined
Upper Explosive Point . . . . . .Not determined
Auto-Ignition Temperature . . . .Not determined
Extinguishing Media . . . . . Foam, CO_2, Dry Chemical, Water spray

Firefighting Procedure: Evacuate area and fight fire from a safe distance. Wear self-contained breathing apparatus pressure-demand (MHSA/NIOSH approved or equivalent) and full protective gear.

Special Firefighting Procedure: As with any fire, wear self-contained breathing apparatus pressure-demand (MHSA/NIOSH approved or equivalent) and full protective gear. Use caution when using water as frothing may occur and thereby increasing fire intensity.

Unusual Fire and explosion Hazards . . . May emit toxic fumes upon thermal decomposition.

Sensitivity to Explosion by Mechanical Impact . . . . .None

Sensitivity to Explosion by Static Discharge . . . . . Potential exists

Conditions of Flammability . . . . .Material will burn - avoid sources of ignition and also avoid temperatures that are within range of the flash point.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General. . . . . .This material should be prevented from contaminating soil for from sewerage and drainage systems and bodies of water. Isolate hazard/spill area. Keep unnecessary and unprotected personnel from enter area.

Small Spill . . . . Sweep up and place in a chemical waste container.

Large Spill . . . .Clean up spills immediately, observing precautions in Protective Equipment Section.

Retain all contaminated water and soil for removal, treatment, and or recycle.

SECTION 7: HANDLING AND STORAGE

Handling. . . . .Although this material does not present a significant skin or eye hazard, skin and eye contact should be prevented as good industrial hygiene practice. Wearing of protective gloves and eye protection is recommended. Always establish the practice of washing arms and hands, as with any chemical, after handling.

Storage. . . . .Store in a cool, dry and well ventilated area. Avoid contact or exposure to incompatible substances. Also avoid those areas where there are ignition sources.

SECTION 8: EXPOSURE CONTROLS - PERSONAL PROTECTION

Exposure Levels:

	OSHA		ACGIH	
Component	**TWA**	**STEL**	**TWA**	**STEL**
110438-25-0	**Not Established**		**Not Established**	
112926-00-8	**5 mg/M3**		**5 mg/M3**	

Engineering Controls: Source(s) of fine spray, mist or vapor should be controlled with local exhaust ventilation.

Respiratory Protection: A NIOSH/MHSA approved air purifying respirator may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, if established. Consult with respirator's manufacturer to determine the appropriate type of equipment for a given application. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Eye/Face Protection: Always use safety glasses. Where contact with the eyes is likely, use chemical goggles. Use a face shield as needed.

Skin Protection: Wear impervious gloves and chemical protective clothing, including impervious sleevelets, overalls, aprons, or boots as needed to prevent contact with the skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance . . . . . Light blue pellets
Odor . . . . . .
Boiling Range . . . . . N/A
Specific Gravity (relative to water) . . . . . 0.95 @ 60°F
Vapor Density (relative to air) . . . . . .Heavier than air
Vapor Pressure (mm Hg) . . . . . .Not established
pH . . . . . N/A
Solubility in Water . . . . . .Insoluble
Freezing/Melting Point . . . . . .Not applicable
Octanol/Water Partition Coefficient . . . . .Not applicable
Odor Threshold . . . . . Not established
Flash Point (TCC) . . . . . N/A
Auto-Ignition Temperature . . . .Not determined
Explosive Properties . . . . . None
Oxidizing Properties . . . . . None
Viscosity @ 77° . . . . . N/A
Evaporation Rate (relative to n-butyl acetate). . . .Slower

SECTION 10: STABILITY AND REACTIVITY

Stable . . . . . Yes

Strong Oxidizer . . . . . No

Hazardous Polymerization . . Not prone to hazardous polymerization.

Incompatibility . . . . . Oxidizers, acids, alkaline materials and reducing agents.

Conditions to Avoid . . . . . .Keep from contact with oxidizers, acids, alkali and reducing agents.
Avoid sources of ignition.

Hazardous Decomposition Products . . . . . Oxides of carbon and phosphorous.
If decomposition occurs in water - phosphoric acid may form.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral LD 50 (Rats) > 5g/kg

Ames - Non-Mutagenic - All Strains

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological and Chemical Fate Information . . . . .Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal . . . . . .Dispose of in accordance with all federal, state and local regulations.

Container Disposal . . . . Dispose of in accordance with all federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name . . . . . Not Regulated
Hazard Class . . . . . .
Packing Group . . . . . .
UN/NA No. . . . . .
DOT Labels . . . . . .None
Subsidiary Label . . . . . None
DOT Placard . . . . . .(BULK) . . . . . .

IMO Shipping Name . . . . . .Not Regulated
Hazard Class . . . . . .
Packing Group . . . . . .
UN No. . . . . .
IMO Labels . . . . . .None
Subsidiary Label . . . . . None

IATA Shipping Name . . . . . Not Regulated
Hazard Class . . . . . .
Packing Group . . . . . .
UN No. . . . . .
IATA Labels . . . . . .None
Subsidiary Label . . . . . .None

SECTION 15: REGULATORY INFORMATION

SARA 311/312 Chronic Health Hazard . . . . . Not determined
SARA 311/312 Acute Health Hazard . . . . . None
SARA 311/312 Fire Hazard . . . . . .None
SARA 311/312 Sudden Pressure . . . . . Not applicable
SARA 311/312 Reactivity Hazard . . . . . No

SECTION 15: REGULATORY INFORMATION (continued)

Section 302 - Extremely Hazardous Ingredient(s) . . . . . .None

CERCLA Hazardous Substance(s) . . . . . None

Section 313 Toxic Chemical(s) . . . . . None

NJ Environmental Hazardous Substances List . . . . . Not Listed

California Proposition 65 Ingredients . . . . . None

Reported in TSCA Inventory . . . . . .Yes

Reported in EEC Inventory . . . . . No

Reported in Canada Inventory . . . . . Yes

SECTION 16: OTHER INFORMATION

HMIS Hazard Rating . . . . . Health = 1 ; Fire = 1 ; Reactivity = 0

NFPA Hazard Rating . . . . . Health = 1 ; Fire = 1 ; Reactivity = 0

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