

**Shield Chemicals Co.**  
**INDUSTRIAL, AUTOMOTIVE and COMMERCIAL**  
**CLEANERS**

**Material Safety Data Sheet**

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**Section I. Identification of Product**  
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Identity: Akuma Klean  
M.S.D.S: #4750  
Date Prepared: 9-11-07  
Revision: 0

**Hazard Ratings:**

4 = Extreme	1 = Slight
3 = High	0 = Insignificant
2 = Moderate	* = see section IV

Toxicity: 1  
Fire: 0  
Reactivity: 0  
Special:

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**Section II. Hazardous Ingredients / identity information**  
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**Hazardous Components (Specific Chemical)**  
Identity - Common Name (s): Sodium Metasilicate, Sodium Tripolyphosphate  
Cas Number: 7758-29-4, 6834-92-0  
Osha Pel: Pel  
Acgih TLV: TLV  
Other Limits Recommended:  
% (Optional)

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**Section III. Physical / Chemical Characteristics**  
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Boiling Point: NA	Specific Gravity (H2O = 1): NA
Vapor Pressure (MM HG): NA	Melting Point: 1148 F to 1564 F
Vapor Density (Air = 1): NA	Evaporation rate (butyl Acetate = 1): NA
Solubility in water: Complete	PH @ 77 F: 1% Solution 11.4
Appearance: White Powdered Granular	
Odor: None	

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**Section IV. Fire and Explosion Hazard Data**  
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Flash Point (Method Used): Non Combustible  
Flammable Limits: NA      LEL: NA      UEL: NA  
Extinguishing Media: Any Appropriate Medium for Extinguishing Surrounding Fire  
Special Fire Fighting Procedures: None

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Unusual Fire and Explosion Hazards: None

Section V. Health Hazard Data

Route(s) of Entry: Inhalation? X      Eyes? X      Skin? X      Ingestion? X

(Acute) Health Hazardous:

Eyes: Direct Contact may result in eye irritation

Skin: Prolonged or repeated contact may cause skin irritation

Ingestion: May cause nausea and vomiting

Inhalation: May cause slight respiratory irritation if mist or spray is breathed

(Chronic) Health Hazards: None Known.

Signs and Symptoms of Exposure:

Eyes: Mechanical Irritation from Granular product. Watering of eyes.

Skin: Deflating of Skin, Skin Dryness.

Ingestion: Swallowing large amounts may cause nausea, vomiting.

Inhalation: Sneezing, Coughing.

Medical Conditions Generally Aggravated by Exposure: None Known.

Emergency and First Aid Procedures:

Eyes: With large volumes of water for 15 minutes. If irritation occurs, obtain medical attention.

Skin: Wash with large volumes of water. If irritation occurs, obtain medical attention.

Ingestion: Dilute with water. Do not induce vomiting. Obtain medical attention, Do not give water to unconscious person.

Inhalation: Remove to fresh air. If discomfort occurs or persists, obtain medical attention.

Section VI. Toxicity Data

Carcinogenicity: No      NTP?      IARC Monographs?      OSHA Regulation?

Oral: ND

Dermal: ND

Inhalation: ND

Section VII. Reactivity Data

Stability Unstable:      Conditions to Avoid:

Stable: X

Incompatibility (Materials to Avoid): Strong Acids. Prolonged contact with Aluminum, Tin, or Zinc may liberate flammable hydrogen.

Hazards decomposition or Byproducts: None

Hazardous Polymerization – May Occur:

Will Not Occur: X

Conditions to Avoid:

Carcinogenicity: No      NTP?      IARC Monographs?      OSHA Regulation?

Oral: Phosphoric acid LDSO (Rat) = 1530 MG / KG

Dermal: Phosphoric Acid LDSO (Rabbit) = 2740 MG / KG

Inhalation: ND

