Section I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SC 5189
Product Description: Vinyl Acetate Homopolymer Emulsion

Manufacturer's Name
StanChem Inc.
401 Berlin Street
East Berlin, CT 06023

Emergency Telephone Numbers:
StanChem Inc.
CHEMTREC: 1-800-424-9300
Information Telephone Number: (860) 828-0571

Section II – HAZARDS IDENTIFICATION

Classification of the substance:
Skin Irritation: Category 2
Eye Irritation: Category 2

Hazard Pictogram:

Signal Word: Warning

Hazard Statements: May be harmful if swallowed
Causes mild skin irritation
Causes eye irritation
May cause respiratory irritation

Precautionary Statements:

First Aid:
Inhalation: Remove individual to fresh air. Consult a physician.
Skin: Wash thoroughly with soap and water. Remove contaminated clothing.
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.
Ingestion: Dilute with clear fluid, then immediately call a physician or the Poison Control Center

Section III – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>SC 5189</th>
<th>CAS REG NO.</th>
<th>AMT. (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer/Solids</td>
<td>Proprietary</td>
<td>54.5 – 55.5</td>
</tr>
<tr>
<td>Individual residual monomers</td>
<td>Not Required</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>44.5 – 45.5</td>
</tr>
</tbody>
</table>

See Section VIII, Exposure Controls/Personal Protection
Section IV – FIRST AID MEASURES

Inhalation:
Move subject to fresh air.

Eye Contact:
Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

Skin Contact:
Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

Ingestion:
If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

Section V – FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Noncombustible (Water Solution)</td>
</tr>
<tr>
<td>Auto-ignition Temp</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Unusual Fire and Explosion Hazards:
Polymers will not burn. However, dried polymer films are capable of burning. Material may spatter if temperatures exceed the boiling point (212°F). After the water is evaporated, decomposition or combustion of the dry solids may generate irritating vapors, monomers, hydrocarbons, CO and CO2.

Special Firefighting Procedures:
Wear self-contained breathing apparatus and full protective gear.

Extinguishing Agents:
Use extinguishing media appropriate for surrounding fire.

Section VI – ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled:
Contain spills immediately. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids and diking material to suitable containers for recovery or disposal.

Caution:
Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

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

Section VII – HANDLING AND STORAGE INFORMATION

Storage Conditions:
Keep from freezing; material may coagulate. The minimum recommended storage temperature for this material is 1°
Handling:
Avoid breathing of vapors. Handle in well-ventilated workspace. When handling, do not eat, drink, or smoke. Avoid contact with skin.

Section VIII – PERSONAL PROTECTION/EXPOSURE CONTROL

Exposure Limit Information

<table>
<thead>
<tr>
<th>No.</th>
<th>StanChem</th>
<th>PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Polymer/Solids</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>2</td>
<td>Individual residual monomers</td>
<td>Not Required</td>
<td>Not Required</td>
</tr>
<tr>
<td>3</td>
<td>Water</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

PEL – Personal Exposure Limit established by OSHA for 8-hour time period
STEL – Short Term Exposure Limit established by OSHA for 15-minute time period

Engineering Controls (Ventilation):
Use local exhaust ventilation with a minimum capture velocity of 100ft./min. (0.5 m/sec) at the point of vapor evolution.

Respiratory Protection:
Not required under normal conditions in a well-ventilated workplace. An organic vapor respirator National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors is recommended under emergency conditions.

Eye Protection:
Chemical safety glasses.

Hand Protection:
Chemical resistant gloves.

Other Protective Equipment:
Facilities storing or utilizing this material should be equipped with an emergency shower and eyewash station.

Section IX – PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Milky Emulsion</td>
</tr>
<tr>
<td>Color</td>
<td>White/cream color</td>
</tr>
<tr>
<td>State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100º C (212º F)</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Mixture</td>
</tr>
<tr>
<td>Specific Gravity (Water=1)</td>
<td>1.0-1.1</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>&lt;Water</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Completely (100%)</td>
</tr>
<tr>
<td>Percent Volatility</td>
<td>44.5 – 45.5 % (Water)</td>
</tr>
</tbody>
</table>
Section X – STABILITY AND REACTIVITY DATA

Chemical Stability:
Stable at ambient temperatures. Coagulation may occur following freezing, thawing or boiling.

Incompatibility: (Conditions/Materials to avoid)
Strong oxidizers.

Hazardous Polymerization:
Will not occur.

Hazardous Decomposition Products:
Thermal decomposition may yield oxides of carbon.

Section XI - TOXICOLOGICAL INFORMATION

Primary Routes of Exposure
Eye Contact
Skin Contact
Inhalation
Ingestion

Product Toxicology
Unlikely to cause harmful effects under recommended conditions of handling and use.

Section XII - ECOLOGICAL INFORMATION

Potential to Bioaccumulate:
Unknown

Aquatic Toxicity:
None established.

Section XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Methods:
Disposal should be in accordance with local, state and national regulations.

Empty Container Warnings:
Empty containers may contain product residue; follow MSDS and label warnings even after the container has been emptied.

Section XIV – TRANSPORTATION INFORMATION

DOT CLASSIFICATION
Proper Shipping Name: Adhesives N.O.I.
Identification Number: N/A
The information provided herein may not include the impact of additional regulatory requirements (e.g. for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/or marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

Section XV – REGULATORY INFORMATION

TSCA

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

Section XVI – OTHER INFORMATION

Hazard Rating Systems

<table>
<thead>
<tr>
<th>NFPA 704*</th>
<th>HMIS**</th>
<th>Key:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>0</td>
<td>0 = Insignificant</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
<td>1 = Slight 2 = Moderate</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
<td>3 = High 4 = Extreme</td>
</tr>
</tbody>
</table>

Key: B = Eye Protection and gloves

*National Fire Protection Association rating identifies the severity of hazards of material during a fire emergency (i.e., “on fire”)

**Hazardous Materials Identification System, National Paint and Coatings Association rating applies to product “as packaged” (i.e., ambient temperature)

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