

StanChem Inc.

MATERIAL SAFETY DATA SHEET

Section I –CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SC 5174
Product Description: Acrylic Copolymer Emulsion

Manufacturer's Name

StanChem Inc.
401 Berlin Street
East Berlin, CT 06023

Emergency Telephone Numbers:

CHEMTREC: 1-800-424-9300
CHEMTREC (Outside the US): 01-703-527-3887
Information Telephone Number: (860) 828-0571

Section II -COMPOSITION/INFORMATION ON INGREDIENTS

<u>SC 5174</u>	<u>CAS REG NO.</u>	<u>AMT.(%)</u>
Polymer/Solids	Proprietary	54.0 – 56.0
Individual residual monomers	Not Required	< 0.1
Water	7732-18-5	44.0 – 46.0

See Section VIII, Exposure Controls/Personal Protection

Section III – HEALTH HAZARDS

Primary Routes of Exposure

Inhalation
Eye Contact
Skin Contact

Inhalation:

Inhalation of vapor or mist can cause the following:
Headache, irritation of the nose, throat, and lungs-nausea

Eye Contact:

Direct contact with material can cause the following:
Slight irritation

Skin Contact:

Prolonged or repeated skin contact can cause the following:
Slight skin irritation

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

Flash Point	Noncombustible (Water Solution)
Auto-ignition Temp	Not Applicable
Lower Explosive Limit	Not Applicable
Upper Explosive Limit	Not Applicable

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° C/34° F. The highest recommended storage temperature for this material is 49° C/120° F.

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

<u>No.</u>	<u>StanChem</u>	<u>PEL</u>	<u>STEL</u>
1	Polymer/Solids	None	None
2	Individual residual monomers	Not Required	Not Required
3	Water	None	None

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 – 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 X – PHYSICAL DATA

Appearance	Milky Emulsion
Color	White/cream color
State	Liquid
Odor	Slight odor
Boiling Point	100° C (212° F)
Molecular Weight	Mixture
Specific Gravity (Water=1)	1.0-1.1
Vapor Density (Air=1)	<Water
Solubility in Water	Completely (100%)
Percent Volatility	44.0 – 46.0 % (Water)
pH	4.0 – 5.0
Viscosity	300 - 1300 cps

Hazard Rating Systems

NFPA 704*		HMIS**		Key: 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme B = Eye Protection and gloves
Health:	0	Health:	1	
Flammability	0	Flammability	0	
Reactivity	0	Reactivity	0	
		Personal Protection	B	

*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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