Material Safety Data Sheet

Product: CoolPoly® D5112

MSDS Date: 7-28-05
Product Name: CoolPoly® D5112
Manufacturer: Cool Polymers®, Inc.

I. Product and Company Description

Cool Polymers®, Inc.
333 Strawberry Field Rd.
Warwick, RI 02886

Emergency Phone Number:
US & CANADA: (800) 424-9300 CHEMTREC
INTERNATIONAL: (703) 527-3887 CHEMTREC

For Product Information:
(888) 811-3787

Product Description:
Synthetic Thermoplastic Polymer

Product Use:
Intended to produce molded or extruded articles.

Chemical Name or Synonym:
NA

Molecular Formula:
NA

II. Chemical Composition

Product is composed of a blend of compounds. The following information is based on these compounds separately and not the blend as a whole.

Component	CAS#	%Composition
Proprietary Filler A	N/A	5-75
PPS	26125-40-6	25-95

Cool Polymers®
ISO 9001 Certified

Material Safety Data Sheet

Product: CoolPoly® D5112

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:
Black Pellets with no odor

B. Potential Health Effects:

Acute Eye:
Dusts may be irritating to the eyes.

Acute Skin:
May cause irritation.

Acute Inhalation:
Inhaled dusts may cause irritation to the respiratory tract. Symptoms include coughing, throat irritation and shortness of breath.

Acute ingestion:
No hazard in normal industrial use.

Chronic effects:
Inhalation of high concentrations of dust over prolonged periods of time may aggravate pre-existing lung and skin disorders.

IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure:
Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. Remove contact lenses after flushing.

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

Inhalation:
Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Ingestion:
Give large quantities of water. Never give anything by mouth to an unconscious person.

Cool Polymers®
ISO 9001 Certified

Material Safety Data Sheet

Product: CoolPoly® D5112

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: N/A

Method Used: N/A

Flammability Limits (vol/vol%): **Lower:** N/A **Upper:** N/A

Extinguishing Media:
Water, Carbon Dioxide, foam, dry chemical

Special Fire Fighting Procedures:
None

Unusual Fire and Explosion Hazards:
None

Hazardous Decomposition Materials (Under Fire Conditions):
Combustion produces toxic gases including sulfur oxides, carbon monoxide and carbon dioxide.

VI. Accidental Release Measures

Cleanup and Disposal of Spill:
Normal housekeeping practices. Sweep or vacuum clean.

Dispose of materials according to the applicable Federal, State, or local regulations.

VII. Handling and Storage

Handling:
Process only with adequate ventilation. Avoid breathing vapors from thermal processing offgases. Avoid eye or skin contact with thermal processing offgases. Thermal decomposition processing offgas condensate may form on surrounding equipment.

Storage:
Store in a well-ventilated, cool, dry place. Avoid excessive heat and ignition sources.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs

Cool Polymers®
ISO 9001 Certified

Material Safety Data Sheet

Product: CoolPoly® D5112

Proprietary Filler A	10 mg/m3, total dust	10 mg/m3	10 mg/m3, total dust
PPS	ND	ND	ND

Engineering Controls:
Due to the encapsulated form of the proprietary filler, there should be little exposure to it under anticipated use conditions.

A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Processing fume condensate may be fire hazard and toxic; remove periodically from exhaust hoods, duct work, and other surfaces using appropriate personal protection. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

Operations involving grinding or machining should be reviewed to ensure that dust levels are kept below recommended levels.

Respiratory Protection:
Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.

Eye / Face Protection:
Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166. Use full face shield when cleaning processing fume condensates from hoods, ducts, and other surfaces.

Skin Protection:
When handling pellets or powder, avoid prolonged or repeated contact with skin. During melt processing, wear long pants, long sleeves, insulated gloves, and a face shield.

IX. Physical and Chemical Properties

Physical Appearance: Solid black pellets

Odor: None

pH: ND

Specific Gravity: >1

Water Solubility: Insoluble

Melting Point Range: >500 F

Vapor Pressure: Negligible

Cool Polymers®
ISO 9001 Certified

Material Safety Data Sheet

Product: CoolPoly® D5112

Percent Volatiles by Volume: Negligible

X. Stability and Reactivity

Chemical Stability:
Stable under standard use and storage conditions.

Conditions to Avoid:
In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat, shapes or thin strands to allow for rapid cooling. Quench in water. Do not allow product to remain in barrel at elevated temperatures for extended periods of time: purge with a general purpose resin. Avoid open flame and strong oxidizers.

Materials / Chemicals to be Avoided:
Strong oxidizing and reducing agents, flame

Hazardous Decomposition Products:
Phenyl sulfides, n-methyl-2-pyrrolidone, dichlorobenzene, phenyl mercaptan, hydrogen sulfide, butyrolactone, mesityl oxide, acetic acid, phenol, formic acid, succinic acid, chlorine, palmitic acid, p-chlorothiophenol, stearic acid, aromatic compounds, chlorinated aromatic compounds, carbonyl sulfide, and sulfur compounds.

Hazardous Polymerization:
Should not occur

XI. Toxicological Information

Acute Eye Irritation:
Dusts may be irritating to the eyes, possibly reddening them.

Acute Skin Irritation:
No absorption hazard in normal industrial use.

Acute Dermal Toxicity:
None

Acute Respiratory Irritation:
Inhaled dusts may cause irritation to the respiratory tract. Symptoms include coughing and throat irritation.

Acute Ingestion Toxicity:
No hazard in normal industrial use.

Acute Inhalation Toxicity:

Cool Polymers®
ISO 9001 Certified

Material Safety Data Sheet

Product: CoolPoly® D5112

Inhalation of high concentrations of dust over prolonged periods of time may aggravate pre-existing lung and skin disorders.

Acute Oral Toxicity:
ND

Chronic Toxicity:
ND

XII. Ecological Information

Ecotoxicological Information:

Degradation:	Not Determined
Accumulation:	Not Determined
Fish-Toxicity:	Not Determined

Chemical Fate Information:
Not Determined

XIII. Disposal Considerations

Waste Disposal Method:
Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

Container Handling and Disposal:
Dispose of container and unused contents in accordance with federal, state, and local regulations.

XIV. Transportation Information

US Department of Transportation Shipping Name:

US Department of Transportation	**Proper Shipping Name**	Not Regulated
	Hazard Class	Not Regulated
	ID Number	Not Regulated
	Packaging Group	Not Regulated
	Label Statement	Not Regulated

XV. Regulatory Information

Federal Regulations:

Cool Polymers®
ISO 9001 Certified

Material Safety Data Sheet

Product: CoolPoly® D5112

SARA Title III Hazard Classes:

Fire Hazard:	NO
Reactive Hazard:	NO
Release of Pressure:	NO
Acute Health Hazard:	NO
Chronic Health Hazard:	NO

Other Federal Regulations:

State Regulations:
None

XVI. Other Information

National Fire Protection Association Hazard Ratings – NFPA(R):

Health Hazard:	1
Flammability:	1
Reactivity:	0

Key Legend Information:
N/A – Not Applicable
ND – Not Determined
ACGIH – American Conference of Governmental Industrial Hygienists
OSHA – Occupational Safety and Health Administration
TLV – Threshold Limit Value
PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on Cancer

The information contained herein is based on the data available to us and is believed to be correct. However Cool Polymers, Inc. makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.