



Material Safety Data Sheet

Product: CoolPoly[®] D3606 PA 4,6

MSDS Date: 3-1-05
Product Name: CoolPoly[®] D3606 PA 4,6
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
Proprietary Filler B	N/A	5-75
Proprietary Filler C	N/A	<20
Flame Retardant (Antimony Trioxide)	1309644	<15
PA 4,6	N/A	20-90



Material Safety Data Sheet

Product: CoolPoly® D3606 PA 4,6

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:
Pellets with no odor

B. Potential Health Effects:

Acute Eye:
Dusts may be irritating to the eyes.

Acute Skin:
The solid form of this product as manufactured is not known to cause skin irritation. Dusts or powders formed from cutting, grinding, or other processing of the product may cause skin 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. A component of this product, antimony trioxide, has been identified as a suspected human carcinogen (See Section XI).

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.



Material Safety Data Sheet

Product: CoolPoly® D3606 PA 4,6

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.

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 oxides of antimony, hydrogen bromide and/or bromine, 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.



Material Safety Data Sheet

Product: CoolPoly® D3606 PA 4,6

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
Proprietary Filler A	3 mg/m ³	ND	5 mg/m ³
Proprietary Filler B	ND	ND	ND
Proprietary Filler C	ND	ND	10 mg/m ³
Proprietary Filler D	ND	ND	0.5 mg/m ³
PA 4,6	ND	ND	5 mg/m ³

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.



Material Safety Data Sheet

Product: CoolPoly® D3606 PA 4,6

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 pellet

Odor: Slight

pH: ND

Specific Gravity: >1

Water Solubility: Insoluble

Melting Point Range: >500 F

Vapor Pressure: Negligible

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, humidity, and strong acids and bases

Hazardous Decomposition Products:

Processing fumes evolved at recommended processing conditions may include trace levels of the following materials: carbon dioxide, carbon monoxide, hydrogen bromide and/or bromine, oxides of antimony, cyclopentanone, ammonia and organic nitrogen compounds such as diaminobutane, pyrrole and pyrroline.



Material Safety Data Sheet

Product: CoolPoly® D3606 PA 4,6

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:

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:

Antimony trioxide has been classified by IARC as a Class 2B carcinogen. A Class 2B material exhibits sufficient evidence in animal tests (possible human carcinogen). Antimony trioxide production has been determined by ACGIH to be a carcinogenic risk and has also been identified by EPA as a suspected lung carcinogen.

XII. Ecological Information

Ecotoxicological Information:

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



Material Safety Data Sheet

Product: CoolPoly® D3606 PA 4,6

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:

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



Material Safety Data Sheet

Product: CoolPoly® D3606 PA 4,6

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.