

RESEARCH SAMPLE SAFETY DATA SHEET

DEXCO POLYMERS LP

A Dow / ExxonMobil Venture

Product Name: **DPX 610 Styrene-Isoprene-Butadiene Block Polymer**

Effective Date: 9/24/2007

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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

CHEMICAL NAME: Styrene-Isoprene-Butadiene-Styrene Block Polymer
CHEMICAL FAMILY: Styrene-Isoprene-Butadiene Block Polymer
PRODUCT DESCRIPTION: Elastomer; natural color; little to no odor; porous granule, solid pellet, powder or slab
CONTACT ADDRESS:
Dexco Polymers
12012 Wickchester
Houston, TX 77079
EMERGENCY TELEPHONE NUMBERS (24 Hours):
CHEMTREC (800) 424-9300
The Dow Chemical Company (989) 636-4400
NON-EMERGENCY TELEPHONE NUMBERS (8am-5pm, M-F):
Health and Safety Information (225) 353-1805 (Request Dexco Product Steward)
General Product Information (281) 754-5800

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Amount</u>
Styrene-isoprene-butadiene block polymer	26602-62-0	> 78 Wt. %
White mineral oil	8042-47-5	< 20 Wt. %
Talc	14807-96-6	≤ 1 Wt. %

The composition of this mixture may be proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse. This product is not hazardous as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Natural powder, pellets or crumb. Odorless. Slipping hazard. Powdered material may form explosive dust-air mixture.
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POTENTIAL HEALTH EFFECTS

EYE: Particulates may scratch eye surfaces/cause mechanical irritation.
SKIN: No hazard in normal industrial use. Exposure to hot material may cause thermal burns.
INHALATION: Dust may be irritating to eyes and respiratory tract.
INGESTION: No hazard in normal industrial use. Minimal toxicity.
CHRONIC EFFECTS: None known.

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4. FIRST AID MEASURES

EYE CONTACT: Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT: Flush with large amounts of water; use soap if available.

For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing, as the damaged flesh can be easily torn.

INHALATION: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION: First aid is normally not required.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: Not Available

AUTOIGNITION TEMPERATURE: Not Available

LOWER FLAMMABILITY LIMIT: 1.3% (for residual solvent)

UPPER FLAMMABILITY LIMIT: 8.0% (for residual solvent)

GENERAL HAZARD: Low hazard.

If thermally decomposed, flammable/toxic gases may be released.

Product can accumulate electrostatic charges when rubbed, chafed, or abraded. Static discharge in the presence of volatile or flammable mixtures presents a potential fire or explosion hazard.

Under fire conditions, polymers decompose. Fire is accompanied by the evolution of a dense black smoke with an acrid odor. It may cause watery eyes (lacrimation). The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon monoxide and carbon dioxide.

Compounding of product in high shear equipment can cause the temperature to rise.

Avoid temperatures above 230°C (446°F).

Product contains residual unsaturation which can undergo exothermic oxidative degradation. Accumulation of product in areas exposed to elevated temperatures for extended periods in air may result in self-heating and autoignition.

Cool material before storing or disposing. Storage or disposal without proper cooling may result in autoignition.

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5. FIRE FIGHTING MEASURES (CONTINUED)

The following conditions may cause heat build up, possibly resulting in ignition: an insulated situation (that prevents heat loss), extended time, air exposure and high surface to weight ratios, accumulation of hot polymer patties.

Flammable vapors can be released at elevated temperatures.

This polymer contains low levels of residual solvent which, when stored in closed containers or heated, can form flammable mixtures above the material. Vessels which are used to heat the material should be purged or blanketed with an inert gas to maintain the volatiles level outside the residual solvent flammability range of 1.3-8.0%.

Mechanical handling can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate.

FIRE FIGHTING: Use water spray to cool fire exposed surfaces and to protect personnel.

Isolate "fuel" supply to fire.

Use water, carbon dioxide or dry chemical to extinguish fire.

Cool surrounding area with water to localize fire zone. Soak thoroughly with water to cool and prevent reignition.

Respiratory and eye protection required for fire fighting personnel.

A self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves) are recommended for indoor fires and any significant outdoor fires. For small outdoor fires which may easily be extinguished with a portable fire extinguisher, use of a SCBA is optional. If protective equipment is not available or not used, fight fires from a protected location or safe distance.

Keep people away. Isolate fire area and deny unnecessary entry.

See Sections 3, 8 and 10.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Fumes, smoke, carbon dioxide (CO₂), and carbon monoxide (CO)

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: Spilled pellets present a slipping hazard on hard surfaces.

Recover spilled material and place in suitable containers for recycle or disposal.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL: Recover the spilled material and place in suitable containers for recycle or disposal.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

7. STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD: Yes, use proper bonding and/or grounding procedure.

STORAGE TEMPERATURE: Below 200°F/93°C

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7. STORAGE AND HANDLING (continued)

LOADING / UNLOADING TEMPERATURE: Ambient

STORAGE / TRANSPORT PRESSURE: Atmospheric

LOADING / UNLOADING VISCOSITY, cSt: Not Applicable

STORAGE AND HANDLING: Keep containers closed. Handle containers with care.

Store in a cool, well-ventilated place away from incompatible materials.

Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight.

Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

Mechanical handling equipment can cause formation of dusts. Maintain good housekeeping. Layers of flammable dusts should not be permitted to accumulate.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS: Local exhaust ventilation of process equipment may be needed to control exposures to below the recommended threshold exposure limit. See personal protection recommendations.

PERSONAL PROTECTION: For open systems where contact is likely, wear safety glasses with side shields.

Where contact may occur with hot materials, wear thermal resistant gloves, arm protection and a face shield.

Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

In dusty atmospheres, use an approved dust respirator.

WORKPLACE EXPOSURE GUIDELINES: OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:

A TWA of 20 mppcf (million particles per cubic foot) for talc (non-asbestos form).

The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, ExxonMobil Chemical Company recommends that the lower exposure levels be observed as reasonable worker protection.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:

A TWA of 2 mg/m³ (respirable dust) for talc that does not contain asbestos fibers, with an A4 designation.

9. PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY: <1.0

DENSITY, lbs/gal: Not Applicable

SOLUBILITY IN WATER, Wt. %: Insoluble

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

SPECIFIC GRAVITY OF VAPOR, at 1 atm: Not Applicable

EVAPORATION RATE: Not Applicable

VAPOR PRESSURE, mmHg: Not Available

VISCOSITY OF LIQUID, cSt: Not Applicable

FREEZING / MELTING POINT, °F: Not Applicable

BOILING POINT, °F: Not Applicable

10. STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions. See Storage, Section 7.

Thermally stable at typical use temperatures.

CONDITIONS TO AVOID INSTABILITY: Do not store above 450°F/93°C

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION: Not applicable

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Flammable hydrocarbons. Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes which may include polymer fragments and other decomposition products. Fumes can be irritating. At temperatures exceeding melt temperatures, polymer fragments can occur.

11. TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1.

INGESTION: Single dose oral LD50 has not been determined.

SKIN: The dermal LD50 has not been determined.

12. ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

MOVEMENT AND PARTITIONING: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float.

DEGRADATION AND PERSISTENCE: This water insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

ECOTOXICITY: Not expected to be acutely toxic, but pellets may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

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13. DISPOSAL CONSIDERATIONS

Please refer to Sections 5, 6 and 15 for disposal and regulatory information.

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Dexco Polymers has no control over the management practices or manufacturing processes of parties handling or using this material.

The information presented herein pertains only to the product as shipped in its intended condition as described in Section 2.

For unused and uncontaminated product, the preferred options include sending to a licensed, permitted recycler, reclaimer, incinerator or other thermal destruction device, and landfill.

As a service to its customers, Dexco can provide contacts which recycle, reprocess styrenic block copolymers and their related packing materials. Telephone Dexco at 281-754-5800 for further details.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT): This product is not regulated by DOT when shipped domestically by land.

CANADIAN TDG INFORMATION: This product is not regulated by T.D.G. when shipped domestically by land.

15. REGULATORY INFORMATION

Not meant to be all-inclusive; selected regulations represented.

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

TSCA: This product is NOT listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

Chemical Name	CAS Number	List
Cyclohexane	110-82-7	NJ1

NJ1 = New Jersey Special Health Hazard Substance (present at > or equal to 0.1%)

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16. OTHER INFORMATION

HAZARD RATING SYSTEMS:

This information is for people trained in National Paint & Coatings Associations's (NPCA) Hazardous Materials Identification System (HMIS), and National Fire Protection Association (NFPA 704) Identification of the Fire Hazards of Materials. HMIS ratings are based on a 0-4 rating scale with 1 representing minimal hazards or risks, and 4 representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS hazard communication program.

	NPCA-HMIS	NFPA 704
HEALTH	0	0
FLAMMABILITY	2	2
REACTIVITY	0	0

Key: 4 = Severe, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal

RSSDS STATUS: Last update 9/19/07

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