MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER

NOVA POLYMERS, INC. 2650 Eastside Park Drive Evansville, Indiana 47715 Rev. Date: 6/20/06

TELEPHONE

812-476-0339 800-226-5143

PRODUCT IDENTIFIER:NOVALAST THERMOPLASTIC RUBBERPRODUCT DESCRIPTION:Thermoplastic rubber.PRODUCT USE:May be used to produce molded or extruded
articles or as a component of other industrial
products.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components listed below are physical or health hazards as defined in the Hazard Communication Standard. The quantities represent typical or average values for the materials shown. Additional compositional data are provided in Section 15, REGULATORY IFORMATION, subject to supplier notification requirements.

<u>COMPONENT</u>	<u>%</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	ACGIH PEL
Thermoplastic rubbe	r 100	Mixture	None Est.	None Est.
Components within	Polym	er Matrix:		
Carbon Black	0-3%	1333-86-4	3.5 mg/m3 TWA	3.5 mg/m3

Black grades contain carbon black, CAS No. 1333-86-4, within the polymer matrix. The International Agency for Research on Cancer (IARC) has determined that carbon black is

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possibly carcinogenic to humans (IARC Group 2B). IARC determined that there is inadequate evidence in humans but sufficient evidence in experimental animals for carcinogenicity of carbon black.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Handle pellets in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.

CAUTION: PROCESSING REELEASES VAPORS OR FUMES WHICH MAY CAUSE RESPIRATORY TRACT IRRITATION.

Avoid breathing processing fumes or vapors. Process using adequate ventilation.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:	Pellets do not cause significant eye irritation.
SKIN CONTACT:	Pellets do not cause significant skin irritation.
INHALATION:	Inhalation of fumes or vapors during processing
may cause respiratory tract irritation.	

-----4. FIRST AID MEASURES

INHALATION: If fumes are inhaled, remove to fresh air. If breathing is difficult, get medical attention.

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5. FIRE FIGHTING MEASURES

Flash (piloted) Ignition Temperature: >650 degrees F (343 degrees C) Method: ASTM D 1929-77

Self Ignition (non-piloted) Temperature: >700 degrees F (371 degrees C) Method: ASTM D 1929-77

Extinguishing media: Water spray or any Class A extinguishing agent.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters and others exposed to products of combustion should wear self-contained breathing apparatus and full protective clothing. Carbon monoxide is liberated as a toxic decomposition product when **NOVALAST** general purpose thermoplastic rubber is ignited

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

STATIC GENERATION: Pneumatic transfer of plastic pellets can generate large static discharges which could cause an incendiary electrostatic spark. Excessive transfer also causes dust which can be ignited under some conditions. Take proper precautions when transferring **NOVALAST** thermoplastic rubber, including grounding all equipment, providing an inert atmosphere and properly designing material handling equipment, to prevent electrostatic charge formation.

6. ACCIDENTAL RELEASE MEASURES

GENERAL: Spilled product may cause a slipping hazard. IN CASE OF SPILL OR LEAK, vacuum or sweep up and place in clean, covered containers for recycle or disposal.

7. HANDLING AND STORAGE

Avoid leaving container open for prolonged periods to prevent exposure to humidity. **NOVALAST** general purpose thermoplastic rubber will pick up small amounts of moisture. Store in a cool, dry place. Usual precautions in pellet handling should be observed to prevent contamination by dirt or other materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: **NOVALAST** general purpose thermoplastic rubber does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

Skin Protection: Although **NOVALAST** general purpose thermoplastic rubber does not present significant skin concern, minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY PROTECTION: Avoid breathing process vapors or dust. Use NIOSH approved respiratory protection equipment (full face-piece recommended) when airborne exposure is excessive. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

VENTILATION: Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Black or natural (colorable) pellets
ODOR:	Slightly rubberlike
SPECIFIC GRAVITY:	0.95 - 0.98
HARDNESS:	45 Shore A to 50 Shore D

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

STABILITY: Thermally stable to 500 degrees (F) (260 degrees (C).

MATERIALS TO AVOID: **NOVALAST** thermoplastic rubber may react with strong oxidizing chemicals. **NOVALAST** thermoplastic rubber also reacts with acetal resins at temperatures of 425 degrees (F) (218 degrees C) and above, producing decomposition of the acetal resin, and formaldehyde as a decomposition product. Decomposition of halogenated polymers and phenolic resins may also be accelerated when they are in contact with **NOVALAST** thermoplastic rubber at processing temperatures. Thoroughly purge processing equipment with polyolefin polymers, including polypropylene, when using the same equipment to process **NOVALAST** thermoplastic rubber and acetal resins, halogenated polymers and phenolic resins. Do not mix **NOVALAST** thermoplastic rubber and acetal resins at elevated temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, carbon monoxide and possibly hydrocarbons may evolve when processing temperatures exceed 500 degrees (F) (260 degrees C) or when **NOVALAST** general purpose thermoplastic rubber is ignited.

HAZARDOUS POLYMERIZATION: Does not occur.

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11. TOXICOLOGICAL INFORMATION

The following information summarizes human experience and results of scientific investigations reviewed by health professional for hazard evaluation of **NOVALAST** general purpose thermoplastic rubber and development of Precautionary Measures and Occupational Control Procedures recommended in this document.

Effects of Exposure:

Skin contact is expected to be the primary route of occupational exposure to **NOVALAST** general purpose rubber. Occupational exposure to this material in normal handling and storage has not been reported to cause significant adverse human health effects. Due to its chemical and physical properties, **NOVALAST** general purpose thermoplastic rubber does not appear to process any toxicological properties which would require special handling other than the good industrial hygiene and safety practices employed with any industrial material of this type.

However, under normal processing conditions, this product will release fumes and vapors. Components of these releases may vary with processing times and temperatures and therefore specific composition cannot be predicted based on current information. These process releases may produce respiratory tract irritation where such releases are allowed to build up due to inadequate ventilation in the general work area. Theses fumes and vapors, with repeated and prolonged exposure at high concentrations, could cause nausea, drowsiness and headache, especially if such exposures exceed current exposure limits (where established). Good industrial hygiene and safety practices should be sued to avoid unnecessary exposures.

Toxicological Data:

Results of single exposure (acute) animal studies conducted in a representative grade of general purpose thermoplastic rubber indicate that these materials are practically nontoxic orally (rats) and after skin application (rabbits). They are practically nonirritating to rabbit eyes and skin.

NTP: Not Tested.

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12. ECOLOGICAL INFORMATION		
GENERAL:	No data available.	
	13. DISPOSAL CONSIDERATIONS	

When discarded **NOVALAST** general purpose thermoplastic rubber is not a "hazardous waste" as that term is defined in 40 CFR 261, "Identification and Listing of Hazardous Waste." Recycle or burn in an approved incinerator or dispose of in an approved chemical landfill in accordance with all applicable local, state and federal laws and regulations. Consult your attorney or appropriate regulatory officials for information on such disposal. Reprocess only uncontaminated material.

SPILL OR LEAKAGE PROCEDURES: Vacuum or sweep up and place in container for recycle or disposal as recommended above.

CONTAINERS: Recycle or burn in an approved incinerator or dispose of in an approved chemical landfill in accordance with all applicable local, state and federal laws and regulations.

14. TRANSPORTATION INFORMATION

DOT Proper Shipping Name:Not applicable.DOT Hazard Class/I.D. No.:Not applicable.DOT Label:Not applicable.U.S. Surface Freight Classification –Truck: Rubber, Crude

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 15. REGULATORY INFORMATIO	

Reportable Quantity (RQ) Under DOT (49 CFR) and CERCLA Regulations: Not Applicable.

SARA Hazard Notification Hazard Categories under criteria of SARA Title III rules (40 CFR Part 370): Not applicable.

Section 313 Hazardous Chemical(s): Not applicable.

SECTION 313 INFORMATION MUST BE INCLUDED IN ALL MSDSs THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

Hazardous Chemcal(s) under OSHA Hazard Communication Standard:

Black grades contain Carbon Black2-3% weight range

HMIS Rating: Reactivity: 1 Health: 1 Flammability: 1

16. OTHER

PREPARED BY:

Product Compliance

The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. Nova Polymers, Inc. makes no warranty, either express or implied, including merchantability and fitness.

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USER RESPONSIBILITY: Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.

ABBREVIATIONS:

ACGIH:	American Conference of Governmental Industrial Hygienists
CA-65:	California Proposition 65 (Safe Drinking Water & Toxic Enforcement
	Act.
CAS #:	Chemical Abstracts Services number.
EPCRA 313:	Emergency Planning and Community Right-to-Know Act, Section 13.
FL:	Florida Right-to-Know Law, Substance List.
OSHA:	The Occupational Safety and Health Administration.
NPRI:	The Canadian National Pollutant Release Inventory.
RCRA:	Resource Conservation and Recovery Act.
RI:	Rhode Island Right-To-Know Law, Hazardous Substance List.
WHMIS:	Canadian Workplace Hazardous Materials Information System.

FOR ADDITIONAL NON-EMERGENCY INFORMATION, CONTACT: PRODUCT SAFETY 812-476-0339