1. GENERAL INFORMATION

Product Name	*	Natural and black SARLINK® X4145, 4155, 4165, LP4165BLK01, 4175, X4175-05, 4180, 4190, 4139D, & 4149D.
Chemical Name & Synonyms	*	Polyolefin Elastomer Blend, Thermoplastic Elastomer (TPE).
CAS Registry Number	*	Proprietary blends. Not identified by CAS number. Main components are: 25038-36-2 & 9003-07-0. All components of these products are listed under TSCA Chemical Substances Inventory. The chemical composition of Sarlink 4100 black grades contains 0.4 – 1.0 Wt% Carbon Black (CAS No.1333-86-4). The Carbon Black is encapsulated in the polymer matrix that minimizes the potential for exposure by inhalation or skin contact. The International Agency for Research on Cancer (IARC) has determined that carbon black is possibly carcinogenic to humans (IARC group 2B). IARC concluded that there is inadequate evidence for the carcinogenicity of carbon black in humans, but sufficient evidence for carcinogenicity of carbon black in experimental animals. ACGIH or NTP does not list Carbon Black as a carcinogen.
Emergency Telephone No.	*	1-800-424-9300 (Chemtrec)
Information Telephone No.	*	1-800-524-0120
Prepared by	*	DSM Thermoplastic Elastomers Inc. 31 Fuller Street Leominster, MA 01453-4451
Date of Issue	*	Jan., 2005 , Version 8.0

2. PHYSICAL DATA

Physical State	*	Solid
Odor and Appearance	*	No odor; pellets
Odor Threshold	*	Not applicable
Specific Gravity	*	0.93 – 0.99
Vapor Pressure	*	Not applicable, non-volatile material
Vapor Density	*	Not applicable, non-volatile material
Evaporation Rate	*	Not applicable, non-volatile material
Boiling Point	*	Not applicable, solid material
Melting Point	*	Softens at 150? C (302? F)
pH	*	Not applicable
Coefficient of Oil/Water Distribution	*	Not established
Solubility in Water at 20°C	*	Insoluble

3. FIRE OR EXPLOSION HAZARD DATA

Flash Point	*	Not established
Auto Ignition Temperature	*	Not established
Flammable Limits	*	Non-volatile material, not applicable
Hazardous Combustion Products	*	Carbon monoxide, products from incomplete combustion and various hydrocarbon compounds.
Extinguishing Media	*	Use Carbon dioxide, water fog, foam or dry chemical.
Special Firefighting Procedures	*	Firefighters must wear full-face positive-pressure, self-contained breathing apparatus to provide protection against combustion products. Evacuate all unprotected personnel.
Unusual Fire and Explosion Hazards	*	Small amounts of fines of products may be formed. Every effort should be made to prevent the accumulation of fines in material handling systems. Equipment and conveying lines must be well grounded to eliminate any build-up of static electricity.
NFPA Rating	*	Health = 1 (slight) Fire = 1 (slight) Reactivity = 0 (insignificant)

4. REACTIVITY DATA

Stability	*	Stable
Conditions to Avoid:	*	Temperature over 260? C (500? F) may cause degradation. Avoid ignition source.
Materials to Avoid:	*	Strong oxidizing agents; Polyacetal (POM) resins at processing temperature.
Hazardous Decomposition products:	*	Carbon monoxide, various hydrocarbons, products from incomplete combustion.
Hazardous polymerization	*	Will not occur.

5. REGULATORY HAZARD, HEALTH INFORMATION

OSHA	*	These products are not hazardous under Hazard communication Standard 29 CFR part 1910.1200 (see note below).
DOT/TDG	*	Not regulated by U.S. Department of Transportation and Canadian Transportation of Dangerous Goods Regulations.
SARA Title III	*	These products contain no known toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.
TSCA:	*	All ingredients are on the TSCA Chemical Substance Inventory.
CEPA	*	Components of these products are included in Canada's DSL (Domestic Substance List).

Note: Black grades contain Carbon Black, which is encapsulated in the thermoplastic elastomers that minimizes potential for exposure by inhalation.

6. TOXICOLOGICAL AND HEALTH DATA

Specific Hazard	*	No acute or chronic hazards or effects are anticipated form the products at ambient temperature, However, at processing temperature, the products can emit fumes and vapors which may cause irritation of the eyes and respiratory tract. Good industrial hygiene and safety practices are always recommended.
Routes of Exposure	*	Eye contact: Not a probable route of exposure. Particulates may scratch eye surface or cause irritation.
	*	Skin contact: not an anticipated hazard at ambient temperature.
	*	Ingestion: not a probable route of exposure.
	*	Inhalation: not a probable route of exposure under conditions of normal use. Hot fumes or vapors which may form during processing can cause irritation to the respiratory tract.
Toxicology Information:	*	Carcinogenicity. IARC concluded that there is inadequate evidence for the carcinogenicity of carbon black in humans, but sufficient evidence for carcinogenicity of carbon black in experimental animals. ACGIH or NTP does not list Carbon Black as a carcinogen.
	*	Mutagenicity: none reported
	*	Reproductive effects: none reported
	*	Teratogenicity: none reported
	*	LD50/LC50 data: no test data available

Additional Information

Note 1. Representative grades were rated non-toxic in a cytotoxicity testing.
Note 2. Representative grades met the requirements of a USP class VI material.

7. PROTECTIVE AND PREVENTIVE MEASURES

Personal Protective Equipment	*	Eye: Wear safety glasses or chemical goggles.
	*	Skin: Wear protective gloves when handling elastomer bags or hot material during processing.
	*	Respiratory: not normally required at ambient temperature. If processing in area where ventilation is inadequate, wear a NIOSH approved organic vapor respirator with mechanical filtration. If processing conditions generate large amount of dust, wear NIOSH approved respirator for nuisance dust.
Handling Procedures and Equipment	*	Practice good personal hygiene. Avoid eye contact. Avoid inhalation of fumes or vapors. Avoid generation and prolonged breathing of dust.
Engineering Controls	*	Local exhaust ventilation is recommended during all hot processing operations.
Exposure Guidelines	*	Not established.

8. EMERGENCY AND FIRST AID PROCEDURES

Inhalation	*	If respiratory irritation occurs, remove affected personnel from the work area. Obtain medical attention if irritation persists or if severe. Implement appropriate controls to prevent further exposures.
Ingestion	*	Consult a physician if pain or discomfort occurs.
Eyes	*	Remove dust particles by flushing eye with clean water. Seek medical attention.
Skin	*	Wash contaminated skin with mild soap and water. Should a burn occur, cool burn area immediately with cool, clean running water until no heat is emitted from burn area. Cover with light, dry dressing. Obtain medical assistance.

9. SPILLS, DISPOSAL, STORAGE GUIDELINES

Spill and Release Information	*	Repackage uncontaminated elastomer. Reuse or dispose of as noted below if contaminated.
Disposal Information	*	Reuse if possible. Dispose in accordance with local, state, and federal regulations and applicable environmental regulations. Material as supplied is not characterized as hazardous under RCRA (Resource and Conservation Recovery Act).
Storage	*	Store at ambient temperature, in dry area and in the absence of direct sunlight.

NOTICE: The information provided herein, presented in good faith, represents the knowledge of the DSM THERMOPLASTIC ELASTOMERS INC. based on the evaluation of current scientific evidence for the components of this product. Users of this material should also make their own investigations including consultation with expert medical and scientific personnel. DSM will continue to evaluate our products updating the information contained in this document as it becomes available.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any nature are made herein with respect to information or the product to which information refers.

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