

# INDIANAPOLIS COMPOUNDS

## MATERIAL SAFETY DATA SHEET

**MSDS Number:** 705b  
**Product Name:** IC 571 E

**Effective Date:** 01/22/04  
**Page:** Page 1 of 5

### SECTION I - PRODUCT IDENTIFICATION

<b>Product Name:</b>	IC-571-E (All Versions)
<b>Tradenames &amp; Synonyms:</b>	Strand Shield
<b>Product Use:</b>	Component of Cable Construction
<b>Manufacturer:</b>	Indianapolis Compounds
<b>Address:</b>	7950 Rockville Road
<b>City:</b>	Indianapolis
<b>State:</b>	Indiana
<b>Zip:</b>	46214
<b>Emergency/Other:</b>	(317) 273-2908
<b>Effective Date:</b>	1/22/04

### SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS No.	%	EXPOSURE LIMITS
Ethylene-Olefin Copolymer	Not Available	55-65	5 mg/M3 respirable dust 15 mg/M3 total dust (based on OSHA PEL for nuisance dust)
Carbon Black	1333-86-4	35-45	3.5 mg/M3 (OSHA PEL TWA) 3.5 mg/M3 (ACGIH TLV TWA)
Peroxide	Mixture	1-3	50 mg/M3 (OSHA PEL TWA) 50 mg/M3 (ACGIH TLV TWA)

#### *Additional Information*

This material is not expected to present unusual hazard under normal conditions of use. Ingredients of this mixture are encapsulated into the polymer matrix and are not expected to present the same exposure effects as in the neat state of the chemical. Should significant vapors/fumes be generated during thermal processing of this product, it is recommended that workstations be monitored for the presence of thermal degradation by-products, which may evolve at elevated temperatures. It is recommended that the current ACGIH-TLV's for these materials be observed.

### SECTION III - HAZARD IDENTIFICATION

<b>Emergency Overview:</b>	Hazards described herein may exist if material is in a fume or dust state. This material can burn in fire releasing toxic vapors, gases, and fumes.
<b>Relevant Routes of Exposure:</b>	Inhalation, Eye or Skin Contact
<b>Signs and Symptoms of Acute Overexposure:</b>	Irritation of eyes, skin & respiratory tract.
<b>Medical Conditions Generally Aggravated By Exposure:</b>	Individuals with chronic respiratory disorders may be adversely affected by any fume or airborne particulate exposure. Sensitive individuals may be susceptible to allergic reaction from contact with skin, eyes, or respiratory tract.
<b>Potential Health Effects:</b>	
<b>Eyes:</b>	Dust or particulate may cause irritation or scratch the surface of the eye. Fumes from heated material may be irritating.
<b>Skin:</b>	Though not expected to present significant skin irritation under normal conditions of use, prolonged exposure may cause slight irritation. Rubbing may cause irritation similar to sand or dust. Burns may occur from melted material.

# MATERIAL SAFETY DATA SHEET

**MSDS Number:** 705b  
**Product Name:** IC 571 E

**Effective Date:** 01/22/04  
**Page:** Page 2 of 5

## SECTION III - HAZARD IDENTIFICATION

**Ingestion:** May cause choking if swallowed. Single dose oral toxicity is believed to be low.

**Inhalation:** Exposures to dusts or fumes may cause irritation to the respiratory tract. Prolonged exposures at high concentrations could cause nausea, drowsiness, or headache.

### Carcinogenicity:

**NTP:** No  
**IARC:** Carbon Black - Group 2B  
**OSHA:** No  
**ACGIH:** No  
**OTHER:** No

### *Additional Information*

When the polymer is melted or heated to melt temperatures, decomposition of the peroxide may generate acetophenone, cumyl alcohol, and alpha-methylstyrene. These by-products will produce a sweet pungent odor detectable by human olfactory senses at 0.3 ppm. Acetophenone may accumulate in the headspace of shipping containers in quantities lower than the ACGIH recommended exposure limit of 10 mg/M3 (ACGIH TLV TWA).

## SECTION IV - FIRST AID MEASURES

**Eyes:** Treat as foreign particulate matter. Flush with water for at least 15 minutes. Contact a physician if discomfort persists.

**Skin:** Wash off in flowing water or shower. If molten material contacts skin, cool the skin rapidly with water or ice. See a physician for removal of any adhering material and treatment of burn.

**Ingestion:** Do not chew pellets or place in mouth. If ingested, seek medical attention.

**Inhalation:** Avoid breathing elevated concentrations of dust or fumes that may be generated during the processing and heating of this material. If breathing is difficult, remove to fresh air and seek medical attention.

**Notes to Physicians and/or Protection for First-Aiders:** Not expected to present hazard to physicians or first-aid responders. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

## SECTION V - FIRE FIGHTING PROCEDURES

**Flammable Limits in Air (% by Volume):** Not Flammable

**Flash Point:** N/A

**Autoignition Temperature:** >240 °C.

**Extinguishing Media:** Water, Foam, Dry Chemical, CO2

**Fire Fighting Instructions:** Do not direct a solid stream of water into burning molten polymers due to possibility of spattering and spread of fire. Firefighters and others exposed to smoke and products of combustion should wear Self Contained Breathing Apparatus (SCBA) and protective clothing.

**Flammability Classification:** Class A (Combustible)

**Known or Anticipated Hazardous Products of Combustion:** This material may decompose at temperatures over 240 °C. Thermal decomposition may release acrid smoke and irritating fumes. May also produce acetophenone, alpha-methylstyrene, cumyl alcohol, methane, and carbon monoxide.

# MATERIAL SAFETY DATA SHEET

**MSDS Number:** 705b  
**Product Name:** IC 571 E

**Effective Date:** 01/22/04  
**Page:** Page 3 of 5

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** At ambient temperatures, no special procedures are required for clean-up of this material beyond those for safe handling identified in this document. In case of spill, place material in disposal containers. Dispose of only in accordance with local, state, and federal regulations.

**Personal Precautions:** Wear necessary respiratory protection and protective clothing to avoid breathing fumes, dust, or smoke from a release.

**Environmental Precautions:** Avoid cleanup methods that result in releases to water. Dispose of waste in accordance with federal, state, and local regulations.

## SECTION VII - HANDLING AND STORAGE

**Handling:** Avoid continued, prolonged, or repeated breathing of elevated levels of fumes, vapors, or dusts. Do not taste, swallow, or chew this material. Use appropriate personal protective equipment when handling polymer pellets.

**Storage:** Keep containers closed. Store in a cool, well-ventilated place away from ignition sources.

**Other Precautions:** Avoid contact with flame or high heat source that may initiate combustion.

## SECTION VIII - EXPOSURE CONTROLS & PERSONAL PROTECTION

**Engineering Controls:** General ventilation is normally sufficient to control potential exposures from fumes or dusts.

**Ventilation Requirements:** Local exhaust ventilation is recommended in confined spaces.

**Personal Protective Equipment:**

**Eye/Face Protection:** Use of suitable eye protection is recommended to prevent eye contact.

**Skin Protection:** Avoid unnecessary prolonged skin contact. If prolonged or repeated contact is likely, gloves and/or protective clothing should be worn.

**Respiratory Protection:** Use NIOSH approved respiratory protection if unable to control dusts or fumes.

**Work Hygienic Practices:** Wash hands thoroughly after handling, especially before eating, smoking or using toilet facilities. Do not store or consume food in processing area.

## SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

**Appearance:** Plastic in Pellet Form

**Boiling Point:** N/A

**Bulk Density:** 45 lbs./cf

**Color:** Black

**Decomposition Temperature:** > 240 °C.

**Heat Value: (BTU/hr./sq. ft.)** N/A

**Melting Point:** <85 °C. (DSC Method)

**Molecular Weight:** Not Determined

**Molecular/Chemical Formula:** Mixture

**Odor:** Sweet pungent odor when heated.

**Odor Threshold:** < 1 ppm

**Percent Volatile:** < 1

**pH Value:** N/A

# MATERIAL SAFETY DATA SHEET

**MSDS Number:** 705b  
**Product Name:** IC 571 E

**Effective Date:** 01/22/04  
**Page:** Page 4 of 5

## SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

**Physical State:** Solid  
**Reactivity in Water:** Not Reactive  
**Softening Point:** 40 to 90 °C.  
**Solubility in Water:** Not Soluble  
**Specific Gravity or Density (Water=1):** 1.1 - 1.2  
**Vapor Pressure:** N/A  
**Viscosity:** Not a liquid  
**Volatile Organic Compounds:** < 1%  
**Weight Per Gallon:** N/A

## SECTION X - STABILITY AND REACTIVITY

**Stability:** Stable at normal temperatures and storage conditions.

**Conditions to Avoid:** This material will decompose at temperatures over 240 °C. Avoid contact with flame or high heat source that may initiate combustion.

**Incompatibility With Other Materials:** Avoid contact with strong acids, oxidizing agents and fluorine.

**Hazardous Decomposition Products:** This material may decompose at temperatures over 240 °C. Thermal decomposition may release acrid smoke and irritating fumes. May also produce acetophenone, alpha-methylstyrene, cumyl alcohol, methane, ethane, phenols and carbon monoxide.

**Hazardous Polymerization:** Will Not Occur

## SECTION XI - TOXICOLOGICAL INFORMATION

**Toxicological Information:** When handled in its manufactured pellet form, this material is not expected to have any toxicological effects. As a mixture, this product has not been tested as a whole for potential toxicological effects.

## SECTION XII - ECOLOGICAL INFORMATION

**Ecological Information:** Precautions should be taken to prevent releases to water. Some forms of polymers have been known to be mistaken by certain species of marine life as a food source.

## SECTION XIII - DISPOSAL CONSIDERATIONS

**Disposal Considerations:** If this material is discarded in its manufactured form, this material is not a RCRA hazardous waste in its own right. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, and mixtures may change the waste classification.

Preferred options for disposal are: (1) Recycling, (2) incineration for energy recovery, and (3) Landfill. This material has a high BTU value which makes option 2 very desirable for material that cannot be recycled. Treatment, storage, and disposal of waste product must be in accordance with applicable government regulations.

## SECTION XIV - TRANSPORT INFORMATION

### U.S. DOT

**Proper Shipping Name:** In its manufactured form, this material is not a hazardous material or hazardous substance as defined by the Department of Transportation.

# MATERIAL SAFETY DATA SHEET

MSDS Number: 705b  
Product Name: IC 571 E

Effective Date: 01/22/04  
Page: Page 5 of 5

## SECTION XIV - TRANSPORT INFORMATION

### AIR - ICAO OR IATA

**Proper Shipping Name:** In its manufactured form, this material is not a dangerous good as defined by the International Air Transport Association.

### WATER - IMDG

**Proper Shipping Name:** In its manufactured form, this material is not a dangerous good as defined by the International Maritime Organization.

## SECTION XV - REGULATORY INFORMATION

**U.S. Federal Regulations:** The U.S. EPA defines plastic pellets as a "significant material" under the Clean Water Act (40CFR 122.26) which requires any industrial plant that may expose pellets to storm water to obtain a storm water permit. Pellets found in storm water runoff are subject to EPA regulations with the potential for fines and penalties.

This product contains the following chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right To Know Act of 1986: None

TSCA: All ingredients of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**State Regulations:** Review Locally with State Authorities

### SARA Hazards:

<b>Acute:</b>	Yes
<b>Chronic:</b>	Yes
<b>Reactive:</b>	No
<b>Fire:</b>	No
<b>Pressure:</b>	No

### Additional Information

The listing of regulations relating to an Indianapolis Compounds product or product component may not be complete or current, either alone or when contaminated with or mixed with other material, and should not be solely relied upon for end user regulatory compliance responsibilities. Other local, state, federal, and international regulations may also apply.

## SECTION XVI - OTHER INFORMATION

### NFPA Codes:

<b>Health:</b>	1
<b>Flammability:</b>	1
<b>Reactivity:</b>	0
<b>Other:</b>	N

### HMIS Codes:

<b>Health:</b>	1
<b>Flammability:</b>	1
<b>Reactivity:</b>	0
<b>Protection:</b>	A,E

**Label Statements:** Routes of Entry: Inhalation, Skin or Eye Contact  
Health Hazard: Irritant  
Physical Hazards: No Physical Hazards  
Target Organs: Eyes, Skin, Respiratory System

### Additional Information

The opinions expressed herein are those of qualified experts within Indianapolis Compounds based on available data from material suppliers as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Indianapolis Compounds, it is the user's obligation to determine the conditions of safe use, safe handling, and safe disposal of the product.