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## 1. PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Crosslinked polyethylene insulation (moisture-cured)

**PRODUCT NUMBER:** 000159 (P6351)

**SUPPLIER:** Rio Tinto Alcan (RTA)  
Engineered Product  
3, Ravinia Drive, suite 1600  
Atlanta, Georgia, USA  
30346 2133  
\* Please call collect for outside calls of North America.

**Emergency phone : 1-800-567-7455\***  
Phone : 770-394-9886  
Fax : 770-395-9053

**\*\*See section 16 for producer(s) identification\*\***

**SYNONYMS:** Sioplas, Monosil, Si-link, Aqua-link, SLPE.

**APPEARANCE AND ODOUR:** Black solid either odourless or with a slight tar odour.

**USES:** Jacketing for power distribution cable.

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

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NAME	CAS #	LD <sub>50</sub>	LC <sub>50</sub>	CONC.
Organosilane-modified polyethylene	-----	None	None	> 60%
Polyethylene	9002-88-4	Unknown	Unknown	< 35%
Carbon black	1333-86-4	15.4 g/kg (oral-rat)	Unknown	< 3%
Tin dilaureate dibutyl	77-58-7	175 mg/kg	Unknown	< 1%

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## 3. HAZARDS IDENTIFICATION

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Not hazardous. Releases toxic gases during welding.

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## 4. FIRST AID MEASURES

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**INHALATION:** If overcome by vapours or dust, remove to a ventilated area. Consult a physician.

**SKIN CONTACT:** Wash skin with soap and water. If irritation persists, consult a physician.

**EYE CONTACT:** Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists, continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort continues, consult a physician.

**INGESTION:** Not applicable

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## 5. FIRE-FIGHTING MEASURES

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Burns if strongly heated.

**EXTINGUISHING MEDIA:** Water, carbon dioxide, dry chemicals, foam.

**HAZARDOUS COMBUSTION PRODUCTS:** If heated to decomposition, emits carbon oxides, aldehydes (formaldehyde, acrolein), hydrocarbons and oxides of silicon. May also emit acetic acid.

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## 6. ACCIDENTAL RELEASE MEASURES

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Prevent finely divided material from entering waterways.

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## 7. HANDLING AND STORAGE

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**HANDLING PRECAUTIONS:** Handle away from all sources of heat or ignition. Certain operations may generate dust. Finely-divided, concentrated dust may ignite or explode when heated.

**STORAGE CONDITIONS:** Store in a well-ventilated area, away from all sources of heat. Store away from acids and oxidising agents. Store away from organic solvents (benzene, ether, gasoline, oils, chlorinated or aromatic hydrocarbons).

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Provide general and local ventilation to maintain concentrations of air contaminants below recommended standards. Wear eye and respiratory protection (goggles and mask), or a full-face respirator if necessary.

**EXPOSURE LIMITS:**

	ACGIH (TLV)		OSHA (PEL)	
	TWA	STEL	TWA	CEILING
Carbon black (total dust)	3.5 mg/m <sup>3</sup>	None	3.5 mg/m <sup>3</sup>	None
Nuisance particulates tot. (PNOS)	10 mg/m <sup>3</sup>	None	15 mg/m <sup>3</sup>	None
Respirable dust	3 mg/m <sup>3</sup>	None	5 mg/m <sup>3</sup>	None

(ACGIH = American Conference of Governmental Industrial Hygienists; TLV = Threshold Limit Value; OSHA = Occupational Safety and Health Administration [USA]; PEL = Permissible Exposure Limit; TWA = Time-Weighted Average; STEL = Short Term Exposure Limit; C = Ceiling value)

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>PH:</b>	Not applicable	<b>FLASHPOINT:</b>	Not applicable
<b>BOILING POINT:</b>	Not applicable	<b>AUTOIGNITION TEMPERATURE:</b>	Not applicable
<b>MELTING POINT:</b>	Not determined	<b>LOWER FLAMMABLE LIMIT:</b>	Not applicable
<b>VAPOUR PRESSURE:</b>	Not applicable	<b>HIGHER FLAMMABLE LIMIT:</b>	Not applicable
<b>VAPOUR DENSITY (AIR = 1):</b>	Not applicable	<b>EXPLOSIVE PROPERTIES:</b>	Not applicable
<b>EVAPORATION RATE:</b>	Not applicable	<b>NFPA FIRE CODE:</b>	1
<b>RELATIVE DENSITY (WATER = 1):</b>	0.93 - 1.0	<b>OXIDISING PROPERTIES:</b>	Not determined
<b>WATER SOLUBILITY:</b>	Insoluble	<b>PARTITION COEFFICIENT (N-OCTANOL/WATER):</b>	Not applicable
<b>ODOUR THRESHOLD:</b>	Not determined		

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## 10. STABILITY AND REACTIVITY

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**STABLE (YES/NO):** Yes

**CONDITIONS AND MATERIAL TO AVOID:** Avoid contact with strong acids and intense heat. Organic solvents (benzene, ether, gasoline, oils, chlorinated hydrocarbons and aromatic hydrocarbons) and strong oxidizing agents may attack polyethylene.

**HAZARDOUS DECOMPOSITION PRODUCTS:** If heated to decomposition, emits carbon oxides, aldehydes (formaldehyde, acrolein), hydrocarbons and oxides of silicon. May also emit acetic acid. Releases toxic gases during welding.

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## 11. TOXICOLOGICAL INFORMATION

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**ROUTES OF EXPOSURE:**

<b>INHALATION:</b>	Yes	<b>INGESTION:</b>	No		
<b>EYE CONTACT:</b>	Yes	<b>SKIN CONTACT:</b>	No	<b>SKIN ABSORPTION:</b>	No

**ACUTE EFFECTS:**

Dust or vapor exposure :

<b>INHALATION:</b>	Irritation of the respiratory tract.
<b>SKIN CONTACT:</b>	Not applicable
<b>EYE CONTACT:</b>	Irritation, watering eyes. Symptoms normally stop when exposure ceases.
<b>INGESTION:</b>	Not applicable

**CHRONIC EFFECTS:**

Frequent or prolonged cutaneous contact may cause dermatitis.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THE PRODUCT:** Not determined**CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICITY:** None of the ingredients present at concentrations equal to or greater than 0.1% are listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.

[IARC = International Agency for Research on Cancer; NTP = National Toxicology Program (USA); OSHA = Occupational Safety and Health Administration (USA)]

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## 12. ECOLOGICAL INFORMATION

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No effects are expected from this insoluble product because insolubility leads to non-bioavailability.

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## 13. DISPOSAL CONSIDERATIONS

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Recycle if possible. Dispose of waste in accordance with federal, state, or local regulations.

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## 14. TRANSPORT INFORMATION

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TDGR: not regulated CFR 49: not regulated IMO: not regulated ICAO: not regulated IATA: not regulated

[TDGR = Transport of Dangerous Good Regs.(Canada). CFR 49 = Code of Federal Regs.(USA). IMO = International Maritime Organization. ICAO = International Civil Aviation Organization. IATA = International Air Transport Association]

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## 15. REGULATORY INFORMATION

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<b>WHMIS CLASSIFICATION (CANADA):</b>	Not controlled
<b>EUROPEAN UNION CLASSIFICATION:</b>	Not classified
<b>WARNING SYMBOL:</b>	None
<b>WARNING WORD:</b>	None
<b>RISK PHRASES:</b>	None
<b>SAFETY PHRASES:</b>	None

**USA REGULATIONS :****Section 313 Supplier Notification**

This product does not contain any chemicals in concentrations subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (Title III of SARA) and of 40 CFR 372.

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**16. OTHER INFORMATION**

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**Suppliers or plants :**

Rio Tinto Alcan (RTA)  
Engineered Products  
409 Reighard Avenue  
Williamsport, PA  
USA  
17701 4195

**Emergency phone :1-800-567-7455\***

Phone : 570-326-3771

Fax : 570-321-7760

Rio Tinto Alcan (RTA)  
Engineered Products  
867 North Bank Road  
Roseburg, OR  
USA  
97470

**Emergency phone : 1-800-567-7455\***

Phone 541-672-4200

Fax 541-673-3501

\* Please call collect for outside calls of North America.

**ABBREVIATIONS:**

WHMIS = Working hazardous material information system. CAS number = Chemical Abstracts Service Registry Number.  
LD<sub>50</sub> = Lethal dose 50%; LC<sub>50</sub> = Lethal concentration 50%; LCL<sub>0</sub> = Lowest published lethal concentration. EU = European Union.

**\* Although the information in this SDS was obtained from sources which we believe to be reliable, it cannot be guaranteed. In addition, this information may be used in a manner beyond our knowledge or control. The information is therefore provided for advice purposes only, without any representation or warranty express or implied. \***

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**DATE OF THE PREVIOUS REVISION:** 2006-06-29**REASON FOR REVISION:** Modification in section 1.