
1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Crosslinked polyethylene insulation (peroxide-cured).

PRODUCT NUMBER: 000056 (P6612)

SUPPLIER: Rio Tinto Alcan (RTA)
Engineered Product
3, Ravinia Drive, suite 1600
Atlanta, Georgia, USA
30346 2133

Emergency phone : 1-800-567-7455*

Phone : 770-394-9886

Fax : 770-395-9053

* Please call collect for outside calls of North America.

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

SYNONYMS: XLPE.

APPEARANCE AND ODOUR: Black solid, faint acid fruity odour.

USES: Jacketing for power distribution cable.

2. COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	LD ₅₀	LC ₅₀	CONC.
Polyethylene	9002-88-4	Unknown	Unknown	68 – 97%
Carbon black	1333-86-4	15.4 g/kg (oral-rat)	Unknown	2 – 29%
Polymerized 1,2-dihydro-2,2,4-trimethylquinoline	26780-96-1	Unknown	Unknown	0.1 - 0.4%
Dicumyl peroxide	80-43-3	4100 mg/kg (oral-rat)	Unknown	Trace
Acetophenone	98-86-2	815 mg/kg (oral-rat)	Unknown	Trace
Cumyl alcohol	536-60-7	1020 mg/kg (oral-rat)	1000 ppm/8h (inh-rat)	Trace
Alpha methyl styrene	98-83-9	4900 mg/kg (oral-rat)	Unknown	Trace

3. HAZARDS IDENTIFICATION

Not hazardous.

4. FIRST AID MEASURES

In case of dust exposure:

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

5. FIRE-FIGHTING MEASURES

Burns if strongly heated. Finely-divided, concentrated dust may ignite or explode when heated.

EXTINGUISHING MEDIA:

Water, carbon dioxide, dry chemicals, foam.

HAZARDOUS COMBUSTION PRODUCTS:

If heated to decomposition, emits carbon oxides, aldehydes (formaldehyde, acrolein) and hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Recycle if possible. Prevent finely divided material from entering waterways. Dispose of waste in accordance with federal, state, or local regulations.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Handle away from all sources of heat or ignition.

STORAGE CONDITIONS:

Store in a well-ventilated area, away from all sources of heat or ignition. Store away from organic solvents (benzene, ether, gasoline, oils, chlorinated or aromatic hydrocarbons). Keep away from strong oxidizing agents and intense heat.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering control : Provide general and local ventilation to maintain concentrations of air contaminants below recommended standards. **Protective equipment :** Provide eyes (safety goggles) and respiratory protection as required.

EXPOSURE LIMITS:

	ACGIH (TLV)		OSHA (PEL)	
	TWA	STEL	TWA	CEILING
Carbon black (total dust)	3.5 mg/m ³	None	3.5 mg/m ³	None
Carbon (as nuisance particulates) – total dust	10 mg/m ³	None	15 mg/m ³	None
- Respirable dust	3 mg/m ³	None	5 mg/m ³	None
Alpha methyl styrene	50 ppm	100 ppm	None	100ppm
Acetophenone	10 ppm	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PH:	Not applicable	FLASHPOINT:	Not applicable
BOILING POINT:	Not applicable	AUTOIGNITION TEMPERATURE:	Not applicable
MELTING POINT:	(Décomposes)	LOWER FLAMMABLE LIMIT:	Not applicable
VAPOUR PRESSURE:	Not applicable	HIGHER FLAMMABLE LIMIT:	Not applicable
VAPOUR DENSITY (AIR = 1):	Not applicable	EXPLOSIVE PROPERTIES:	Not applicable
EVAPORATION RATE:	Not applicable	NFPA FIRE CODE:	1
RELATIVE DENSITY (WATER = 1):	1.02 – 1.04	OXIDIZING PROPERTIES:	Not applicable
WATER SOLUBILITY:	Insoluble	PARTITION COEFFICIENT	Not applicable
ODOUR THRESHOLD:	Not determined	(N-OCTANOL/WATER):	

10. STABILITY AND REACTIVITY

STABLE (YES/NO): Yes

CONDITIONS AND MATERIAL TO AVOID: Store away from 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) and hydrocarbons. May also emit acetic acid.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:

INHALATION: Yes

INGESTION: No

EYE CONTACT: No

SKIN CONTACT: No

SKIN ABSORPTION: No

ACUTE EFFECTS:

Dust or vapor exposure :

INHALATION: Irritation of the respiratory tract.

EYE CONTACT: Irritation, watering eyes.

UNDER SOLID FORM :

SKIN CONTACT: No known effects.

INGESTION: No known effects.

CHRONIC EFFECTS: SKIN CONTACT:

Possible dermatitis due to aldehyde vapors.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THE PRODUCT: Not applicable

CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICITY: The International Agency for Research on Cancer (IARC) classifies carbon black in group 2B: possibly carcinogenic in humans (no evidence in humans but sufficient evidence in animals).

12. ECOLOGICAL INFORMATION

Plastics are resistant to weathering, moisture, most acids, fats, petroleum hydrocarbons and fungus. They are dimensionally stable and biologically not available.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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]

15. REGULATORY INFORMATION

WHMIS CLASSIFICATION (CANADA): Not controlled

EUROPEAN UNION CLASSIFICATION:

WARNING SYMBOL: Aucun

WARNING WORD: Aucun

RISK PHRASES: Aucune

SAFETY PHRASES: Aucun

USA REGULATIONS :

Section 313 - Notification du fournisseur Ce produit ne contient aucun ingrédient en concentration suffisante pour être soumis aux exigences de rapport de la section 313 du "Emergency Planning and Community Right-To-Know Act of 1986" (Title III du SARA) et du "40 CFR 372".

16. OTHER INFORMATION

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USA
39520 3928

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* Please call collect for outside calls of North America.

ABBREVIATIONS:

WHMIS = Working hazardous material information system. CAS number = Chemical Abstracts Service Registry Number.
LD₅₀ = Lethal dose 50%; LC₅₀ = Lethal concentration 50%; LCL₀ = Lowest published lethal concentration. EU = European Union.

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DATE OF THE PREVIOUS REVISION: 2005-05-24

REASON FOR REVISION: Modification in section 1.