MATERIAL SAFETY DATA SHEET • MSDS

SECTION 1 • *PRODUCT IDENTIFICATION*

TRADE NAME	**EPOXY MOULDING COMPOUND**
ANAMET PRODUCT NUMBER	**211-X**
CHEMICAL NAME	
MANUFACTURER / SUPPLIER'S NAME	ANAMET
ADDRESS	P.O. Box 538 BOUCHERVILLE, QUÉBEC, J4B 6Y2
TELEPHONE NO.	(450) 646-1290
EMERGENCY TELEPHONE NO.	**CANUTEC (613) 996-6666**

SECTION II • *COMPOSITION / INFORMATION ON COMPONENTS*

Chemical characterization Description	**CAS number**	**%**	**OSHA PEL (mg/m^3)**	**ACGIH TLV (mg/m^3)**
Carbon black	1333-86-4	<0.3	3.5 mg/m^3	3.5 mg/m^3
Glass Fiber (Respirable Nuisance Dust).	65997-17-3	<10	5	10
Phenol.	108-95-2	<0.3	5	5
Amorphous silica. (respirable dust)	60676-86-0	<70	0.1	0.1
Epoxy Novolac Polymer.	29690-82-2	<20	Not established.	Not established.
Phenolic Polymer.	9003-35-4	<15	Not established.	Not established.
Tetrabromobisphenol-A Polymer.	40039-93-8	<5	Not established.	Not established.

NOTE: Ingredients are listed on the TSCA Inventory of Chemical Substances. Those not identified are non-hazardous.

SECTION III • *PHYSICAL / CHEMICAL CHARACTERISTICS*

Boiling point in ºC	Not applicable.	**Vapor pressure (mm Hg)**	Not applicable.
Melting point in ºC	Not established.	**Vapor density (Air = 1)**	Not established.
Density (Water = 1)	1.75-1.85	**Evaporation rate (Butyl acetate= 1)**	Not applicable.
Solubility in water	Negligible.		
Appearance and odor	Granular black powder, slight odor.		

SECTION IV • *FIRE / EXPLOSION HAZARD*

Flash point	Not applicable.			
Flammable limits	**LEL**	Not established.	**UEL**	Not established.
Extinguishing medium	Water fog, dry chemical, foam and CO_2.			
Special fire fighting procedures	Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.			
Unusual fire and explosion hazards	High concentration of airborne dust may form an explosive mixture with air. Ensure that good housekeeping practices are followed.			
Auto ignition Temperature	Not established.			

SECTION V • *REACTIVITY*

Stability	Stable.
Conditions to avoid	High temperatures.
Incompatibility	Strong oxidizing agents, strong acids.
Hazardous decomposition products	Phenol, formaldehyde, alkyl phenols, CO_x and aromatic hydrocarbons may be generated at elevated temperatures (>540 ºC (1004°F)).
Hazardous Polymerization	Does not occur.

SECTION VI • *TOXICOLOGICAL PROPERTIES OF PRODUCT*

A - SUGGESTED FIRST AID

Eyes	Flush eyes with a large amount of water for at least 15 minutes. See a physician if irritation persists.
Skin	Wash affected skin area with soap and water at first opportunity.
Inhalation	Move subject to fresh air. If respiration stops, apply appropriate emergency resuscitation techniques. Get medical attention.
Ingestion	If accidentally swallowed, dilute by drinking large quantities of water, immediately contact poison control centre or hospital emergency for any other treatment directions.

B – TOXICOLOGICAL INFORMATION

PRIMARY ENTRY ROUTES: Inhalation, skin and eye contact.

• SHORT TERM EXPOSURE

Inhalation	Dusts and vapors may cause irritation of the respiratory tract.
Eye contact	Dusts and vapors may cause irritation
Skin contact	May cause irritation and/or allergic reactions in sensitized individuals.

Ingestion	None known.

*Dust will cause nose and throat irritation and will be moderately irritating to the eyes. Dust is irritating to skin upon repeated and prolonged contact. Sensitized individuals may experience allergic skin reactions. *Airborne crystalline silica can cause lung damage (silicosis) on repeated and prolonged contact and has been identified by IARC and NTP as a possible carcinogen.
*Antimony oxide exposure can lead to irritation of the eyes, mucous membranes and respiratory tract. Chronic overexposure can lead to lung and liver damage, damage to the heart with altered ECG and changes in blood chemistry.
*Phenol vapors may be released during molding processes. Overexposure to these vapors may cause irritation to eyes, nose throat and skin. Sensitized individuals may experience allergic skin reactions. *IARC has listed carbon black as a Class 2B possible human carcinogen based on laboratory studies with animals.
* IARC has listed carbon black as a Class 2B possible human carcinogen based on laboratory studies with animals.

• LONG TERM EXPOSURE

Carcinogenicity	Crystalline silica is listed under California Proposition 65.
Teratogenicity, Mutagenicity and other reproductive effects	Not established.
Skin Sensitization	Prolonged contact may cause skin irritation.
Respiratory tract sensitization	Prolonged inhalation may be harmful to the respiratory tract.
Synergistic materials	None.

SECTION VII • *PERSONAL PROTECTION MEASURES*

PERSONAL PROTECTIVE MEASURES

Eye, face & hands	Wear safety glasses with side shields (ANSI Z87.1 or equivalent). Wear appropriate protective clothing to minimize skin contact. Impervious gloves should be worn to prevent skin contact (neoprene, latex, rubber, milled nitrile or butyl).
Respiratory protection	Use MSHA/NIOSH approved respiratory protection if level of air contaminants exceeds action levels set by local regulatory agencies.
Ventilation	**Local Exhaust**: Use mechanical local exhaust ventilation at point of contaminant release. **Mechanical (General):** General room ventilation is recommended with industrial operations.
Hearing	As needed in accordance with OSHA 1910-215.
HMIS Ratings	Health : 1 Flammability : 0 Reactivity : 0

SECTION VIII • *SAFETY PRECAUTIONS IN CASE OF LEAKS OR SPILLS*

Spills	Sweep or vacuum spills. To minimize dust, vacuum cleaning is preferred.
Waste and container disposal methods	Dispose of in accordance with federal, provincial and municipal regulations.
Environmental precautions	None needed.
Personnel precautions	Avoid breathing dust and vapors. PPE should be appropriate for the situation.

SECTION IX • *STORAGE AND HANDLING*

Handling	Avoid breathing fumes from molding or other processes involving heat. Avoid breathing dust from cutting, machining or deflashing operations. Avoid high concentrations of dust in air and accumulation on equipment. Fine dust of this material in heavy concentration can create a dust explosion hazard.
Storage	Keep container closed and sealed when not in use. Store in cool, dry place below 40 ºC (104°F).
Shipping classification **DOT hazard class**	• **Dot Shipping Name:** Not regulated. • **TDG/UN Shipping Names:** Not regulated. • **UN Number:** Not regulated. • **Hazard Class:** Not regulated. • **Packing Group:** Not regulated. • **TDG Exemption:** Not regulated. • **Label:** Not regulated. • **ATA Class:** Not regulated. • **IMDG Class:** Not regulated.
HMIS Coding	Health: 1 Flammability: 0 Reactivity: 0

SECTION X • ECOLOGICAL INFORMATION

Environmental Fate and Distribution	Not available.
Persistence and Degradation	Not available.
Toxicity	Not available.
Effect of effluent treatment	Not available.

SECTION XI • *REGULATORY INFORMATION*

• EC REGULATIONS:

TSCA STATUS: On Toxic Substance Control Inventory.
CERCLA REPORTABLE QTY: Immediate health hazard, chronic health hazard.
SARA TITLE III

- Section 302: None.
- Section 311/312: Acute, chronic.
- Section 313: Antimony compounds (oxides), Phenols.

RCRA STATUS: Not regulated.

• CANADIAN REGULATIONS:

WHMIS Classification: D2A, D2B.

TERMINOLOGY

ACGIH: American Conference of Governmental Industrial Hygienists

ANSI: American National Standards Institute

CAS: Chemical Abstract Service

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act (USA)

CFR: Code of Federal Regulations (USA)

DOT: Department of Transportation (USA)

HMIS: Hazardous material information sheet

IARC: International Agency for Research on Cancer.

MSHA: Mine Safety and Health Administration (USA)

NIOSH: National Institute for Occupational Safety and Health (USA)

NTP: National Toxicology Program (USA)

OSHA: Occupational Safety and Health Administration (USA)

PEL: Permissible exposure limits.

RQ: Reportable Quantité

SARA: Superfund Amendments and Reauthorization Act (USA)

TLV: Threshold limits value.

TPQ: Threshold Planning Quantity (Quantity of the total material, expressed in pounds, which is extremely hazardous)

TSCA: Toxic Substances Control Act (USA)

UN/NA number: United Nations Serial Number, North American Number