# MATERIAL SAFETY DATA SHEET · MSDS





#### SECTION I • PRODUCT IDENTIFICATION

TRADE NAME **TECHNOVIT 4004, RESIN** 

ANAMET PRODUCT NUMBER 235-R

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/m³)	ACGIH TLV (mg/m³)	
Modified	9011-14-7	>99	Not	Not	
Poly Methyl Methacrylate.	9011-14-7	>99	established.	established.	

### SECTION III • PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling point in °C	Not Vapor pressure		Not	
Boiling point in *C	applicable.	(mm Hg)	available.	
Melting point in <sup>o</sup> C	Not	Vapor density (Air = 1)	Not	
	established.		available.	
Density	Not	Evaporation rate	Not	
(Water = 1)	available.	(Butyl acetate= 1)	available.	
Solubility in water	Insoluble.			
Appearance and odor	White powder, odorless.			

### **SECTION IV** • FIRE / EXPLOSION HAZARD

Flash point	Not applicable.					
Flammable limits	LEL	Not applicable.	UEL	Not applicable		
Extinguishing medium	Water, foam, dry chemical, carbon dioxide.					
Special fire fighting procedures	Wear self-contained breathing apparatus.					
Unusual fire and explosion hazards	Toxic fumes of Material may decomixtures in the air.					







SECTION V • REACTIVE	/ITY
Stability	Stable at normal temperatures and storage conditions.
Conditions to avoid	Avoid using product in totally unventilated areas.
Incompatibility	Incompatible with strong oxidizing agents and bases.
Hazardous decomposition products	Decomposes with heat. Decomposition temperature 200 °C (392°F). Hazardous gases/vapors produced are carbon monoxide and carbon dioxide. Some organic esters may be generated by decomposing the polymer, these may contain methacrylates.
Hazardous polymerization products	Polymerization will not occur.

		CAL PROPERTIES OF PRODUCT			
	STED FIRST AID				
Eyes	Flush eyes with plent	y of water for at least 15 minutes; call a physician.			
Skin	Flush skin with water	after contact. Wash contaminated clothing before reuse.			
	If molten polymer gets on skin, cool rapidly with cool water. Do not attempt to				
	peel polymer from ski	n. Obtain medical treatment for thermal burn.			
Inhalation	No specific interventi	on is indicated as compound is not likely to be hazardous			
	by inhalation. Consu	It a physician if necessary.			
Ingestion	Do not initiate vomitin	g. Consult a physician.			
B - TOXICO	OLOGICAL INFORMA	ATION			
PF	RIMARY ENTRY ROU	TES: Inhalation, ingestion, skin, and eye contact.			
▼ SHORT	TERM EXPOSURE '	7			
Eyes	Can be irritating.				
Skin	There is no data on	the skin irritation or skin sensitization properties of the			
	powder.				
Inhalation	Gross overexposure	to nuisance particles, regardless of how generated, may			
	cause irritation of the	respiratory tract.			
Ingestion	There is no information	on on the ingestion toxicity of the powder. Ingestion is not a			
	probable route of exp	osure. Toxicity is predicted to be low.			
▼ LONG T	TERM EXPOSURE ▼				
Carcinoger	nicity	None.			
Teratogeni	city, Mutagenicity	None.			
and other r	eproductive effects	None.			
Skin Sensitization		Except for skin sensitization, repeated exposures to low			
		molecular weight epoxy resins of this type are not			
		anticipated to cause any significant adverse effects.			
Respirator	Respiratory tract sensitization Not available.				





Synergistic materials	Not available.
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# **SECTION VII • PRECAUTIONARY INFORMATION PERSONAL PROTECTIVE MEASURES**

Eye, face & hands	Safety glasses. Long sleeve shirt, gloves.					
Respiratory	Wear suitable respiratory protective equipment if exposure to levels above the					
protection	occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. In the event of formation of particularly high levels of vapor a self-contained breathing apparatus may be appropriate.					
Ventilation	Provide adequate ventilation, including appropriate local extraction, to insure that the defined occupational exposure limit is not exceeded.  Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.					
Hearing	As needed in accordance with OSHA 1910-215.					
HMIS Coding	Health: 0 Flammability: 0 Reactivity: 0					

<b>SECTION VIII</b>	• SAFETY PRECAUTIONS IN CASE OF LEAKS OR SPILLS				
Spill or	Vacuum or sweep with sweeping compound, sawdust or sand. Avoid				
leak procedure	generating dust. Ventilate area and wash spill after the material has been				
-	picked up.				
Waste disposal	Treatment, storage, transportation, and disposal must be in accordance				
•	with applicable Federal, Provincial, and Municipal regulations.				
	Incinerate in a facility which complies with Federal, Provincial and				
	Municipal requirements. Do not incinerate in closed containers.				

### **SECTION IX** • STORAGE AND HANDLING

Storage	Keep in a cool, well ventilated place. Preferably not exceeding 25°C.						
Handling	Avoid contact with skin and eyes. Avoid inhalation of high concentration of vapors. Use in well ventilated area. Keep container closed to prevent water absorption and contamination.						
Shipping classification	<ul> <li>Dot Shipping Name: Not regulated.</li> <li>TDG/UN Shipping Names: Not regulated.</li> </ul>						
Classification	UN Number: Not regulated.						
DOT	Hazard Class: Not regulated.						
Hazard class	Packing Group: Not regulated.						
	TDG Exemption: Not regulated.						

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	Label: Not regulated.				
	IATA Class: Not regulated.				
	IMDG Class: Not regulated.				
HMIS Coding	Health: 0 Flammability: 0 Reactivity: 0				

### **SECTION X** • ECOLOGICAL INFORMATION

Environmental fate and Distribution	None listed.
Persistence and Degradation	None listed.
Toxicity	Not toxic.
Effect of effluent treatment	None known.

### SECTION XI • REGULATORY INFORMATION

### EC REGULATIONS:

TSCA: On Toxic Substance Control Inventory.

CERCLA Reportable Quantity: None

SARA TITLE III

• Section 302: None

• Section 311/312: None.

Section 313: None.

RCRA STATUS: Not regulated.

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WHMIS: Not regulated

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### **TERMINOLOGY**

**ACGIH:** American Conference of Governmental Industrial Hygienists

**CAS:** Chemical Abstract Service

**CFR:** Code of Federal Regulations (Transportation in U.S.A.)

**DOT:** Department of Transportation (USA)

**DSL:** Domestic Substance List

IARC: International Agency for Research and Cancer

LC: Lethal Concentration

LD: Lethal Dosage

**MSHA:** Mine Safety and Health Administration (USA)

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

**NTP:** National Toxicology Program (U.S.A.)

**OSHA:** Occupational Safety and Health Administration (USA)

**PEL:** Permissible exposure limit.

**STEL:** Short term exposure limit.

**TDG:** Transportation of Dangerous Goods

**TLV:** Threshold limits value.

**TSCA:** Toxic Substances Control Act

**TWA:** Time-weighted average

**USEPA:** United States Environmental Protection Agency

WHMIS: Workplace Hazardous Materials Information System