

# MATERIAL SAFETY DATA SHEET • MSDS



## SECTION I • PRODUCT IDENTIFICATION

<b>TRADE NAME</b>	<b>TECHNOVIT 4006, RESIN</b>
<b>ANAMET PRODUCT NUMBER</b>	<b>234-R</b>
<b>CHEMICAL NAME</b>	
<b>MANUFACTURER / SUPPLIER'S NAME</b>	ANAMET
<b>ADDRESS</b>	P.O. Box 538 BOUCHERVILLE, QUÉBEC, J4B 6Y2
<b>TELEPHONE NO.</b>	(450) 646-1290
<b>EMERGENCY TELEPHONE NO.</b>	<b>CANUTEC (450) 646-1290</b>

## SECTION II • COMPOSITION / INFORMATION ON COMPONENTS

Chemical characterization Description	CAS number	%	OSHA PEL (mg/m <sup>3</sup> )	ACGIH TLV (mg/m <sup>3</sup> )
Product based on methacrylate copolymer	-	>99	Not established.	Not established.

## SECTION III • PHYSICAL / CHEMICAL CHARACTERISTICS

<b>Boiling point in °C</b>	Not determined.	<b>Vapor pressure (mm Hg)</b>	Not available.
<b>Melting point in °C</b>	<0.5	<b>Vapor density (Air = 1)</b>	Not available.
<b>Density (Water = 1)</b>	Not available.	<b>Evaporation rate (Butyl acetate= 1)</b>	Not available.
<b>Solubility in water</b>	Insoluble.		
<b>Appearance and odor</b>	White powder, odorless.		

## SECTION IV • FIRE / EXPLOSION HAZARD

<b>Flash point</b>	>250 °C			
<b>Flammable limits</b>	<b>LEL</b>	Not applicable.	<b>UEL</b>	Not applicable
<b>Extinguishing medium</b>	Water, foam, dry chemical, carbon dioxide.			
<b>Special fire fighting procedures</b>	Wear self-contained breathing apparatus.			
<b>Unusual fire and explosion hazards</b>	Toxic fumes of carbon monoxide and carbon dioxide. Material may decompose to form flammable or explosive mixtures in the air.			



**SECTION V • REACTIVITY**

<b>Stability</b>	Stable at normal temperatures and storage conditions.
<b>Conditions to avoid</b>	Avoid using product in totally unventilated areas.
<b>Incompatibility</b>	Incompatible with strong oxidizing agents and bases.
<b>Hazardous decomposition products</b>	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.
<b>Hazardous polymerization products</b>	Polymerization will not occur.

**SECTION VI • TOXICOLOGICAL PROPERTIES OF PRODUCT**

**A - SUGGESTED FIRST AID**

<b>Eyes</b>	Flush eyes with plenty of water for at least 15 minutes; call a physician.
<b>Skin</b>	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 skin. Obtain medical treatment for thermal burn.
<b>Inhalation</b>	No specific intervention is indicated as compound is not likely to be hazardous by inhalation. Consult a physician if necessary.
<b>Ingestion</b>	Do not initiate vomiting. Consult a physician.

**B - TOXICOLOGICAL INFORMATION**

**PRIMARY ENTRY ROUTES:** Inhalation, ingestion, skin, and eye contact.

▼ **SHORT TERM EXPOSURE** ▼

<b>Eyes</b>	Can be irritating.
<b>Skin</b>	There is no data on the skin irritation or skin sensitization properties of the powder.
<b>Inhalation</b>	Gross overexposure to nuisance particles, regardless of how generated, may cause irritation of the respiratory tract.
<b>Ingestion</b>	There is no information on the ingestion toxicity of the powder. Ingestion is not a probable route of exposure. Toxicity is predicted to be low.

▼ **LONG TERM EXPOSURE** ▼

<b>Carcinogenicity</b>	None
<b>Teratogenicity, Mutagenicity and other reproductive effects</b>	None.
<b>Skin Sensitization</b>	Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.
<b>Respiratory tract sensitization</b>	Not available.
<b>Synergistic materials</b>	Not available.



**SECTION VII • PRECAUTIONARY INFORMATION  
PERSONAL PROTECTIVE MEASURES**

<b>Eye, face &amp; hands</b>	Safety glasses. Long sleeve shirt, gloves.
<b>Respiratory protection</b>	Wear suitable respiratory protective equipment if exposure to levels above the 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.
<b>Ventilation</b>	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.
<b>Hearing</b>	As needed in accordance with OSHA 1910-215.
<b>HMIS Coding</b>	Health: 0 Flammability: 0 Reactivity: 0

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

<b>Spill or leak procedure</b>	Vacuum or sweep with sweeping compound, sawdust or sand. Avoid generating dust. Ventilate area and wash spill after the material has been picked up.
<b>Waste disposal</b>	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**

<b>Storage</b>	Keep in a cool, well ventilated place. Preferably not exceeding 25°C.
<b>Handling</b>	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.
<b>Shipping classification</b>	<ul style="list-style-type: none"> <li>• <b>Dot Shipping Name:</b> Not regulated.</li> <li>• <b>TDG/UN Shipping Names:</b> Not regulated.</li> <li>• <b>UN Number:</b> Not regulated.</li> </ul>
<b>DOT Hazard class</b>	<ul style="list-style-type: none"> <li>• <b>Hazard Class:</b> Not regulated.</li> <li>• <b>Packing Group:</b> Not regulated.</li> <li>• <b>TDG Exemption:</b> Not regulated.</li> <li>• <b>Label:</b> Not regulated.</li> </ul>

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	<ul style="list-style-type: none"><li>• <b>IATA Class:</b> Not regulated.</li><li>• <b>IMDG Class:</b> Not regulated.</li></ul>
<b>HMIS Coding</b>	Health: 0 Flammability: 0 Reactivity: 0

## SECTION X • ECOLOGICAL INFORMATION

<b>Environmental fate and Distribution</b>	None listed.
<b>Persistence and Degradation</b>	None listed.
<b>Toxicity</b>	Not toxic.
<b>Effect of effluent treatment</b>	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.

### • CANADIAN REGULATIONS:

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