

# MATERIAL SAFETY DATA SHEET • MSDS



## SECTION 1 • PRODUCT IDENTIFICATION

<b>TRADE NAME</b>	<b>TECHNOVIT 4002, RESIN</b>
<b>ANAMET PRODUCT NUMBER</b>	<b>228-R</b>

### CHEMICAL NAME

<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>	CANUTEC (613)-996-6666

## 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> )
Dibenzoyl Peroxide.	94-36-0	0-5	5	10
Dicyclohexyl Phthalate.	84-61-7	0-5	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

<b>Boiling point in °C</b>	Not established	<b>Vapor pressure (mm Hg)</b>	Not available.
<b>Melting point in °C</b>	Not available.	<b>Vapor density (Air = 1)</b>	Not available.
<b>Density (Water = 1)</b>	2.560	<b>Evaporation rate (Butyl acetate= 1)</b>	Not available.
<b>Solubility in water</b>	Insoluble.		
<b>Appearance and odor</b>	Fine white powder / odorless.		

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## SECTION IV • FIRE / EXPLOSION HAZARD

Flash point	None.			
Flammable limits	LEL	Not applicable.	UEL	Not applicable.
Extinguishing media	Carbon dioxide, extinguishing powder, alcohol resistant foam or water jet.			
Special fire fighting procedures	MSHA/NIOSH approved self-contained breathing apparatus recommended and suitable protective clothing should be worn in fire conditions.			
Unusual fire and explosion hazards	Formation of toxic gases is possible during heating or in case of fire.			

## SECTION V • REACTIVITY

Stability	Stable.
Conditions to avoid	Avoid using product in totally unventilated area.
Hazardous decomposition products	None
Hazardous Polymerization	None.

## SECTION VI • TOXICOLOGICAL PROPERTIES OF PRODUCT

### A - SUGGESTED FIRST AID

Eyes	Irrigate with eyewash solution or clean water, holding the eyelids apart for at least 20 minutes. Obtain medical attention.
Skin	Remove contaminated clothing. Wash skin immediately with water.
Inhalation	Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.
Ingestion	Do not induce vomiting. Wash out mouth with water and call a physician.

### B - TOXICOLOGICAL INFORMATION

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

#### ▼ SHORT TERM EXPOSURE ▼

Eyes	Irritating to eyes as dust.
Skin	May cause sensitization by skin contact. Irritating to skin.
Inhalation	Irritating to respiratory system as nuisance dust.
Ingestion	Not established.

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## ▼ LONG TERM EXPOSURE ▼

<b>Carcinogenicity</b>	No ingredients listed by IARC, ACGIH, NTP, and OSHA as a carcinogen.
<b>Teratogenicity, Mutagenicity and other reproductive effects</b>	There is no reason to believe that this product represents a mutagenic hazard to man based upon evidence from well conducted animal studies, relevant Mutagenicity studies, and adequate epidemiology studies in relevant cohorts. Recent studies in animals have shown high exposures do not produce embryo or Fetotoxic nor Teratogenicity effects in the presence of maternal toxicity. None of these effects are likely to occur in humans, provided exposure is maintained at or below the occupational exposure limit.
<b>Skin Sensitization</b>	Not established.
<b>Respiratory tract sensitization</b>	Not established.
<b>Synergistic materials</b>	Not established.

## SECTION VII • PRECAUTIONARY INFORMATION PERSONAL PROTECTIVE MEASURES

<b>Eye, face &amp; hands</b>	Safety glasses with side shields. Wear suitable gloves. PVS/Polyethylene laminate and supported PVA gloves offer the best protection. Gloves should be changed regularly and if excessive exposure has occurred.
<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.
<b>HMIS Hazard Ratings</b>	Health: 1 Flammability: 0 Reactivity: 0
<b>Components with critical values require or may require monitoring at the work place:</b>	
94-36-0 Dibenzoyl Peroxide	Long term value: 5 mg/m <sup>3</sup>
13463-67-7 Titanium Dioxide	Long term value: 10* 4** mg/m <sup>3</sup> <i>*Total inhalable dust, **Respirable dust.</i>
84-61-7 Dicyclohexyl phthalate	Long term value: 5 mg/m <sup>3</sup>

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

<b>Spill or leak procedure</b>	Sweep up to avoid slipping hazard. Keep airborne particulate at a minimum when cleaning up spills.
<b>Waste disposal</b>	Disposal should be in accordance with local, state, or national legislation. Incinerate under approved controlled conditions. Decontaminate empty drums before recycling.

## SECTION IX • STORAGE AND HANDLING

<b>Storage</b>	Keep in a cool, well ventilated place. Preferably not exceeding 25°C (77°F).
<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> <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> <li>• <b>IATA Class:</b> Not regulated.</li> <li>• <b>IMDG Class:</b> Not regulated.</li> </ul>
<b>DOT Hazard class</b>	
<b>HMIS Ratings</b>	Health: 1 Flammability: 0 Reactivity: 0

## SECTION X • ECOLOGICAL INFORMATION

<b>Environmental Fate and Distribution</b>	Do not allow product to reach ground water and sewage system.
<b>Persistence and Degradation</b>	None established.
<b>Toxicity</b>	None established.
<b>Effect of effluent treatment</b>	None established.

**SECTION XI • REGULATORY INFORMATION**

**• EC REGULATIONS:**

TSCA STATUS: On Toxic Substance Control Inventory.  
CERCLA REPORTABLE QUANTITY: None.  
SARA TITLE III

- Section 302 : None
- Section 311/312: Chronic.
- Section 313: None.

RCRA STATUS: Not regulated.

**• CANADIAN REGULATIONS:**

WHMIS Classification: D2B.

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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