

MATERIAL SAFETY DATA SHEET • MSDS



SECTION 1 • PRODUCT IDENTIFICATION

TRADE NAME	TECHNOVIT 4000, RESIN
ANAMET PRODUCT NUMBER	232-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/m ³)	ACGIH TLV (mg/m ³)
Quartz	100101-78-6	>90	0.1	0.1
Dibenzoyl Peroxide.	94-36-0	0-5	5	10

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 °C	Not determined	Vapor pressure (mm Hg)	Not available.
Melting point in °C	Not determined	Vapor density (Air = 1)	2-2.5 g/cm ³ @ 20 °C (68°F).
Density (Water = 1)	2.65	Evaporation rate (Butyl acetate= 1)	Not available.
Solubility in water	Insoluble		
Appearance and odor	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	Not established.			
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	Not established.			

SECTION V • REACTIVITY

Stability	Stable.
Conditions to avoid	Avoid using product in totally unventilated area.
Incompatibility	None.
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, 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 ▼

Carcinogenicity	IARC labels quartz flour as a 2A carcinogen
Teratogenicity, Mutagenicity and other reproductive effects	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.
Skin Sensitization	Not established.
Respiratory tract sensitization	Progressive inhalation symptoms include silicosis and histology fibrosis of the lungs. Repeated inhalation of Respirable free silica dust may cause delayed disease (Silicosis).
Synergistic materials	Not established.

SECTION VII • PRECAUTIONARY INFORMATION PERSONAL PROTECTIVE MEASURES

Eye, face & hands	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.
Respiratory protection	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.
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.
HMIS Hazard Ratings	Health: 1 Flammability: 0 Reactivity: 0

SECTION VIII • SAFETY PRECAUTIONS IN CASE OF LEAKS OR SPILLS

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

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SECTION IX • STORAGE AND HANDLING

Storage	Keep in a cool, well ventilated place. Preferably not exceeding 25°C (77°F).
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 style="list-style-type: none"> • 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. • IATA Class: Not regulated. • IMDG Class: Not regulated.
DOT Hazard class	
HMIS Ratings	Health: 1 Flammability: 0 Reactivity: 0

SECTION X • ECOLOGICAL INFORMATION

Environmental Fate and Distribution	None established.
Persistence and Degradation	None established.
Toxicity	None established.
Effect of effluent treatment	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