MATERIAL SAFETY DATA SHEET • MSDS





SECTION 1 • PRODUCT IDENTIFICATION

TRADE NAME **TECHNOVIT 5000, HARDENER**

ANAMET PRODUCT NUMBER

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)
Methyl Methacrylate.	80-62-6	50-75	410	410
Epoxyacrylat.		10-25		
(1-methyl1,2 ethanediyl) Bis [oxy (methyl-2, 1-ethanediyl)] diacrylate.	42978-66-5	0-5	Not available.	Not available.

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	101 °C (213.8°F)	Vapor pressure (mm Hg)	Not available.
Melting point in °C	Not applicable	Vapor density (Air = 1)	Not available.
Density (Water = 1)	1.0	Evaporation rate (Butyl acetate= 1)	Not available.
Solubility in water	Insoluble.		
Appearance and odor	Colorless liquid	/ Characteristic Odor.	







SECTION IV • FIRE / EXPLOSION HAZARD				
Flash point	10 °C (50°F).			
Flammable limits	LEL	2.1%	UEL	12.5 %
Extinguishing media	Carbon dioxide, extinguishing power, water jet, alcohol resistant			
	foam. Do not use	water or water jet.		
Special fire fighting	MSHA/NIOSH a	approved self-con	tained breat	hing apparatus
procedures	recommended and	d suitable protective	e clothina shou	ld be worn in fire

	conditions. Keep fire exposed containers cool by spraying water.
Unusual fire and	Formation of toxic gases is possible during heating or in case of fire.
explosion hazards	

SECTION V • *REACTIVITY*

Stability	Stable.
Conditions to avoid	Avoid temperatures above 350°C (662°F). Potentially violent decomposition can occur above 350°C. Generation of gas during decomposition can cause pressure in closed systems. Pressure build up can be rapid.
Incompatibility	Avoid bases, acids and oxidizing agents.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Hazardous Polymerization	If stored longer than recommended and /or recommended temperature, product may polymerize generating heat.

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 and soap for at least 20 minutes. If symptoms (irritation or blistering) occur obtain medical attention.
Inhalation	Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.
Ingestion	Do not induce vomiting. Obtain medical attention immediately. Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after the accident.







B –	TOXICOL	.OGICAL	INFORMATION
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P	PRIMARY ENTRY ROUTES: Inhalation, ingestion, skin, and eye.		
 SHORT TI 	ERM EXPOSURE		
Inhalation	Vapor or mist can irritate the nose, throat and lungs. Symptoms such as sore		
	throat, coughing, chest pain, shortness of breath and difficult breathing may		
	occur.		
Skin	Liquid or vapor can	irritate the skin.	
Eyes	Liquid or high concentrations of vapor or mist can cause severe		
	eye irritation.		
Ingestion	Liquid may cause burning of the mouth, throat and digestive tract with		
	abdominal pain, nausea, vomiting, diarrhea, thirst, weakness, shock (collapse)		
	and death. Permanent damage could result.		
LONG TERM EXPOSURE			
Carcinogen	nogenicity Not established.		
Teratogenio	Teratogenicity, Mutagenicity Not available.		
and other reproductive effects INOT AVAIIABLE.			
Skin Sensit	Skin Sensitization The product is a skin sensitization (allergy).		
Respiratory	Respiratory tract sensitization Respiratory sensitizer.		
Synergistic	ynergistic materials Not available.		

SECTION VII • PERSONAL PROTECTION MEASURES PERSONAL PROTECTIVE MEASURES

ILNOUNALI	ROTEOTIVE MEASURES
Eye, face &	Safety spectacles/Full Face Shield. Wear suitable impervious (Neoprene)
hands	gloves. Gloves should be changed regularly and if excessive exposure has
	occurred.
Respiratory	Wear suitable respiratory protective equipment if exposure to levels above
protection	the occupational exposure limit is likely. A suitable mask with filter 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: 2 Flammability: 3 Reactivity: 2

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Spill or	Eliminate sources of ignition. Ensure suitable personal protection
leak procedure	(including respiratory protection) during removal of spillages. Prevent entry into drains. Adsorb spillages with liquid-binding material (diatomite, universal binders, for small amounts of tissues). Do not adsorb onto sawdust or other combustible materials. Do not flush with water or aqueous cleansing agents. Transfer to a container for disposal or recovery. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
Waste disposal	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
Storage	Store in a cool (not above 25°C (77°F). and in a well ventilated place. Keep away from sources of ignition-No Smoking. Keep away from heat and direct sunlight.
Handling	Avoid contact with skin and eyes. Avoid inhalation of high concentration of vapors. Use in well ventilated area. Take precautionary measures against static discharges.
Shipping classification	 Dot Shipping Name: Methyl Methacrylate Monomer Stabilized TDG/UN Shipping Names: Methyl Methacrylate Monomer Stabilized UN Number: UN1247
DOT Hazard class	 Hazard Class: 3 Packing Group: II TDG Exemption: Not regulated. Label: Corrosive Liquid IATA Class: 3 IMDG Class: 3
HMIS Coding	Health: 2 Flammability: 3 Reactivity: 2

SECTION X • ECOLOGICAL INFORMATION

Environmental Fate and Distribution	Not available.
Persistence and Degradation	Not available.
Toxicity	Harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment.
Effect of effluent treatment	Not available.

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SECTION XI • REGULATORY INFORMATION

EC REGULATIONS:

TSCA STATUS: On Toxic Substance Control Inventory.

CERCLA REPORTABLE QUANTITY: Methyl Methacrylate, 1000 lbs.,

SARA TITLE III

Section 302 : None

• Section 311/312: Acute, fire, chronic.

Section 313: Methyl Methacrylate

RCRA STATUS: Methyl Methacrylate, U162

CANADIAN REGULATIONS:

WHMIS Classification: E, B2 and 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