MATERIAL SAFETY DATA SHEET · MSDS





SECTION 1 • PRODUCT IDENTIFICATION

TRADE NAME **TECHNOVIT 5071, 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	> 90 %	410	Not available.
N,N-dimethylaniline	99-97-8	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	100 °C (212°F)	Vapor pressure (mm Hg)	Not available
Melting point in ^o C	Not	Vapor density (Air = 1)	Not
	determined.		available.
Density	0.94	Evaporation rate	Not
(Water = 1)	0.94	(Butyl acetate= 1)	available.
Solubility in water	Insoluble.		
Appearance and odor	Colorless liquid	/ characteristic odor.	







 / EXPLOSION HAZARD

Flash point	10 °C (50 °F)			
Flammable limits	LEL	2.1%	UEL	12.5 %
Extinguishing media	Carbon dioxi	de, extinguishin	g power, a	cohol foam.
	Do not use w	ater or water je	t.	
Special fire fighting procedures	MSHA/NIOS	H approved	self-conta	ined breathing
	apparatus i	ecommended	and suit	able protective
	clothing shou	uld be worn in	fire condit	ions. Keep fire
	exposed cor	ntainers cool b	y spraying	g water. Take
	precautionary	y measures aga	inst static (charge.
Unusual fire and explosion	Formation of	toxic gases is	possible d	luring heating or
hazards	in case of fire) .		

SECTION V • *REACTIVITY*

Stability	Stable.
Conditions to avoid	Not available.
Incompatibility	Not available.
Hazardous decomposition	No decomposition if used and stored according to
products	specification.
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 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		INFORMATION
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PRIMARY ENTRY ROUTES: Inhalation, ingestion, skin, and eye contact. Symptoms of poisoning may occur after several hours, therefore medical observation for at least 48 hours after the accident.

SHORT TERM 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

Carcinogenicity	Not available.
Teratogenicity, Mutagenicity and other reproductive effects	Not available.
Skin Sensitization	The product is a skin sensitizer (allergy).
Respiratory tract sensitization	Respiratory sensitizer.
Synergistic materials	Not available.
A outo toxicity	

Acute toxicity:

N,N-dimethyl-p-toluidine 99-97-8 Oral LD50 500mg/kg (rat) Dermal LD50 3mg/kg (rat)

SECTION VII • PRECAUTIONARY INFORMATION PERSONAL PROTECTIVE MEASURES

Eye, face & hands	Safety spectacles/Full Face Shield. Wear suitable impervious (Neoprene) gloves. 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 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 Ratings	Health: 2 Flammability: 3 Reactivity: 2

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Componer	nts with critical values that	require monitoring at the work place:	
80-62-6	methyl methacrylate	Short term value: 416 mg/m ³ , 100 ppm	
		Long term value: 208 mg/m ³ , 50 ppm	

SECTION VIII	• SAFETY PRECAUTIONS IN CASE OF LEAKS OR SPILLS
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 onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. 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	Keep in a cool, 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.	
Shipping	Dot Shipping Name: METHYL METHACRYLATE MONOMER,	
classification	STABILIZED solution	
	TDG/UN Shipping Names: METHYL METHACRYLATE MONOMER,	
DOT	STABILIZED solution	
Hazard class	UN Number: UN1247	
	• Hazard Class: 3	
	Packing Group:	
	TDG Exemption: May be shipped as a LIMITED QUANTITY if container	
	is 5L or less.	
	• Label: 3	
	• IATA Class: 3	
	• IMDG Class: 3	
HMIS Ratings	Health: 2 Flammability: 3 Reactivity: 2	







SECTION X • ECOLOGICAL INFORMATION

Environmental	Not available.
Fate and Distribution	
Persistence and Degradation	Not available.
Toxicity	Methyl methacrylate is only slightly toxic.
Effect of effluent treatment	Not available.

SECTION XI • REGULATORY INFORMATION

• EC REGULATIONS:

TSCA STATUS: On Toxic Substance Control Inventory. CERCLA REPORTABLE QUANTITY: Methyl Methacrylate, 1000 lbs (453.6 kg). 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, 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