MATERIAL SAFETY DATA SHEET • MSDS





SECTION 1 • PRODUCT IDENTIFICATION

TRADE NAME **TECHNOVIT 3040 HARDERNER**

ANAMET PRODUCT NUMBER 239-H

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

Not	Vapor pressure	47mbar
determined.	(mm Hg)	@ 20 °C (68°F)
Not	Vapor density (Air = 1)	Not
determined.		available.
0.04	Evaporation rate	Not
0.94	(Butyl acetate= 1)	available.
Not miscible.		
Colorless liquid / characteristic odor.		
	determined. Not determined. 0.94 Not miscible.	determined. (mm Hg) Not Vapor density (Air = 1) determined. 0.94 Evaporation rate (Butyl acetate= 1) Not miscible.







SECTION IV • FIRE	/ EXPLOSION HAZARD
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Flash point	10 °C (50 °F)			
Flammable limits	LEL	2.1%	UEL	12.5 %
Extinguishing media		de, extinguishin	• .	cohol foam.
	Do not use wa	ater or water je	t.	
Special fire fighting procedures	1	H approved		•
				able protective
	clothing shou	ıld be worn in	fire condit	ions. Keep fire
	exposed con	tainers cool b	y spraying	g water. Take
	precautionary	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 - TOXIC	OLOGICAL INFORMA	ATION	
p		DUTES: Inhalation, ingestion, skin, and eye contact.	
		ur after several hours, therefore medical observation for at	
least 48 hou	urs after the accident.		
 SHORT T 	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 ir	ritate the skin.	
Eyes	Liquid or high co	oncentrations of vapor or mist can cause severe	
Ingestion			
LONG TERM EXPOSURE			
Carcinoge		Not available.	
Teratogeni	city, Mutagenicity reproductive effects	Not available.	
Skin Sensi	Skin Sensitization The product is a skin sensitizer (allergy).		
Respirator	Respiratory tract sensitization Respiratory sensitizer.		
Synergistic	Synergistic materials Not available.		

SECTION VII • PRECAUTIONARY INFORMATION PERSONAL PROTECTIVE 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 Ratings Health: 2 Flammability: 3 Reactivity: 2			
Components w	Components with critical values that require monitoring at the work place:		
80-62-6 r	80-62-6 methyl methacrylate Short term value: 416 mg/m ³ , 100 ppm		

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Long term value: 208 mg/m³, 50 ppm

Flammability: 3 Reactivity: 2

	Long term value. 208 mg/m , 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-
J	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. The vapor is heavier than air; beware
	of pits and confined spaces. Take precautionary measures against static
	discharges.
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: II TDG Exemption: May be shipped as a LIMITED QUANTITY if container
	is 5L or less.
	• Label: 3
	• IATA Class: 3
	• IMDG Class: 3

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Health: 2

HMIS Ratings

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SECTION X • ECOLOGICAL INFORMATION

Environmental Fate and Distribution	Not available.
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