MATERIAL SAFETY DATA SHEET · MSDS





SECTION 1 • PRODUCT IDENTIFICATION

TRADE NAME **TECHNOVIT 4071, HARDENER**

ANAMET PRODUCT NUMBER 237-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	25-50	410	410
Dodecane-1-thiol.	112-55-0	<1.0	Not available.	Not available.
N, N-dimethyl-p-toluidine.	99-97-8	<1.0	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 ^o C	101 °C	Vapor pressure	Not
	(213.8°F)	(mm Hg)	available.
Melting point in ^o C	Not	Vapor density (Air = 1)	Not
	applicable.		available.
Density	1.0	Evaporation rate	Not
(Water = 1)	1.0	(Butyl acetate= 1)	available.
Solubility in water	Insoluble.		
Appearance and odor	Colorless liquid / Characteristic Odor.		







SECTION IV •	FIRF / FXPI	OSION HAZARD
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Flash point	15 °C (59°F).				
Flammable limits	LEL	2.1%	UEL		12.5 %
Extinguishing media	Carbon dioxide, extinguishing power, alcohol foam.				
	Do not use water	or water jet.			
Special fire fighting procedures	MSHA/NIOSH a recommended and conditions. Keep	d suitable pro	tective clothing	should be	worn in fire
Unusual fire and explosion hazards	Formation of explor in case of fire.	osive air/vapo	or mixtures is p	ossible du	ring heating

SECTION V • *REACTIVITY*

Stability	Stable.		
Conditions to avoid	Avoid using product in totally unventilated areas.		
Incompatibility	No dangerous reactions known.		
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

A 0000L	OTED TINOT 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.

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B – TOXICOLOGICAL INFORMATION

PRIMARY ENTRY ROUTES: Inhalation, ingestion, skin, and eye contact.	
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• SHORT TERM EXPOSURE

Eyes	Liquid or high concentrations of vapor or mist can cause severe
	eye irritation.
Skin	Liquid or vapor can irritate the skin.
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.
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	None.
Teratogenicity, Mutagenicity and other reproductive effects	Not available.
Skin Sensitization	The product is a skin sensitization.
Respiratory tract sensitization	Respiratory sensitizer.
Synergistic materials	Not available.

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 Coding	Health: 2 Flammability: 3 Reactivity: 2

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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 with liquid-binding material (diatomite, universal binders, for small amounts of tissues). Do not flush with water or aqueous cleansing agents. 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 Stabilized
classification	TDG/UN Shipping Names: Methyl Methacrylate Monomer Stabilized
	UN Number: UN1247
DOT	• Hazard Class: 3
Hazard class	Packing Group:
	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 Not available. 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 (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 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