



SECTION 1 • PRODUCT IDENTIFICATION

TRADE NAME EPOXY RESIN

ANAMET PRODUCT NUMBER 233-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/m³)	ACGIH TLV (mg/m³)
Polymer of epichlorohydrin and bisphenol A.	025085-99-8	83	Not established.	Not established.
Alkyl glycidyl ether (C12-C14).	068609-97-2	17	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	>148.9°C (300°F)	Vapor pressure (mm Hg)	0.06 mmHg @70 F.
Melting point in °C	Not applicable.	Vapor density (Air = 1)	Not applicable.
Density (Water = 1)	1.11 - 1.14	Evaporation rate (Butyl acetate= 1)	Not available.
Solubility in water	Insoluble.		
Appearance and odor	Yellow liquid. Mild odor.		

Revised date: January 2015

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SECTION IV • FIRE / EXPLOSION HAZARD				
Flash point	176.7°C (35	0°F).		
Flammable limits	LEL	Not applicable.	UEL	Not applicable.
Extinguishing media	Water fog or fine spray, dry chemical fire extinguishers, carbon dioxide fire extinguishers and foam. Do not use direct water stream. May spread fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Water fog, applied gently may be used as a blanket for fire extinguishment.			
Special fire fighting procedures	Wear positive pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). If protective equipment is not available or not used, fight fire from protective location or safe distance.			
Unusual fire and explosion hazards	Violent steam		uption may oc	on in a fire situation. cur upon application of

SECTION V • REACTIVITY			
Stability	Thermally stable at typical use temperatures.		
Conditions	Avoid temperatures above 300°C (572°F). Potentially violent		
to avoid	decomposition can occur above 350°C (662 F). Generation of gas during		
	decomposition can cause pressure in closed systems. Pressure build up		
	can be rapid.		
Incompatibility	Avoid contact with: oxidizing materials, acids, bases. Avoid unintended		
	contact with amines.		
Hazardous	Decomposition products depend upon temperature, air supply and the		
decomposition	presence of other materials, Gases are released during decomposition.		
products	Uncontrolled exothermic reaction of epoxy resins release phenolic,		
	carbon monoxide and water.		
Hazardous	Will not occur by its self. Masses more than one pound (0.45kg) of		
Polymerization	product plus an aliphatic amine will cause irreversible polymerization with		
	considerable heat built up.		
Thermal	Decomposition products depend upon temperature, air supply and the		
Decomposition	presence of other materials. Gases are released during decomposition.		
	Uncontrolled exothermic reaction of epoxy resins release phenolics,		
	carbon monoxide, and water.		





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SECTION	VI • TOXICOLOGICAL PROPERTIES OF PRODUCT		
	STED FIRST AID		
Eyes	Irrigate with eyewash solution or clean water, holding the eyelids apart for		
-	least 15 minutes. Obtain medical attention. Never give anything by mouth		
	an unconscious person. Call a physician.		
Skin	Remove contaminated clothing. Wash skin immediately with water. Iten which cannot be decontaminated should be disposed of properly.		
Inhalation	Remove patient from exposure, keep warm and at rest. Obtain immedia		
iiiiaiatioii	medical attention.		
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. See		
	medical attention.		
	PHYSICIAN: Consider additional thorough skin wash with non-abrasive soap at		
	m water for at least 15 minutes. No specific antidote. Treatment of exposure should I		
	e control of symptoms and the clinical condition of the patient.		
	DLOGICAL INFORMATION		
	IMARY ENTRY ROUTES: Inhalation, ingestion, skin, and eye contact.		
▼ SHORT	TERM EXPOSURE ▼		
Eyes	May cause slight temporary eye irritation. Corneal injury is unlikely.		
Skin	Has caused allergic skin reactions in humans. Prolonged exposure not like		
	to cause significant skin irritation. Prolonged skin contact is unlikely to result		
	the absorption of harmful amounts.		
Inhalation	Excessive exposure may cause irritation to upper respiratory tract (nose ar throat).		
Ingestion	Low oral toxicity if swallowed. Small amounts swallowed incidental to norm		
•	handling operations are not likely to cause injury; however, swallowing larg		
	amounts may cause injury.		
▼ LONG TI	ERM EXPOSURE ▼		
Carcinogen	icity Many studies have been conducted to assess the potential carcinogenic		
_	of diglycidy ether of bisphenol A. Although some weak evidence		
	carcinogenicity has been reported in animals, when all of the data a		
	considered, the weight of evidence does not show that DGEBPA		
	carcinogenetic. Indeed, the most recent review of the available data I		
Torotoronio	the IARC has concluded that DGEBPA is not classified as a carcinogen.		
Teratogenic			
Mutagenicit			
other repro-	In animal studies, DGEBPA-based epoxy resins have been shown not		
enects	interfere with reproduction.		
Skin Sensiti			
	epoxy resins of this type are not anticipated to cause any significa		
	adverse effects.		

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Respiratory tract

Not available.





sensitization	
Synergistic materials	Not available.

SECTION VII • PERSONAL PROTECTION MEASURES PERSONAL PROTECTIVE MEASURES

Eye, face & hands	Safety spectacles/Full Face Shield. Use protective chemically resistant for		
	this material.		
Respiratory	Wear suitable respiratory protective equipment if exposure to levels above the		
protection	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 in accordance with OSHA 1910-215.		
HMIS Coding	Health: 2 Flammability: 1 Reactivity: 0		

SECTION VIII	SAFETY PRECAUTIONS IN CASE OF LEAKS OR SPILLS
	Ensure suitable personal protection (including respiratory protection) during
	removal of spillages. Prevent entry into drains. Adsorb spillages with material such
	as sand. Collect in suitable and properly labeled container. Remove residual
,	with soap and hot water. Solvents are not recommended for clean up unless the
ļı	recommended exposure guidelines and safe handling practices for the specific
	solvent are followed. Consult appropriate solvent SDS for handling information
	and exposure guide lines.
Waste disposal	Disposal should be in accordance with local, state, or national legislation.

SECTION IX • STORAGE AND HANDLING

Storage	Keep in a cool, well ventilated place.			
Handling	Avoid contact with skin, eyes and clothing. Avoid inhalation of high concentration of vapors. Use in well ventilated area.			
Shipping classification DOT hazard class	 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			
HMIS Coding	Health: 2 Flammability: 1 Reactivity: 0			





SECTION X • ECOLOGICAL INFORMATION

Environmental Fate and Distribution	Based largely or completely on information for diglycidyl ether of bisphenol A: bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000).
Persistence and Degradation	Based largely or completely on information for diglycidyl ether of bisphenol A: biodegradation reached in Modified Zahn-Wellens/EMPA Test (OECD Test No. 302B) after 28 days: 12 %.
Toxicity	Based largely or completely on information for diglycidyl ether of bisphenol A: material is moderately toxic to aquatic organism on an acute basis (LC50 or EC50 between 1 and 10 mg/L in most sensitive species tested).
Effect of effluent treatment	Not available.

SECTION XI • REGULATORY INFORMATION

• EC REGULATIONS:

TSCA: On Toxic Substance Control Inventory. CERCLA REPORTABLE QUANTITY: None.

SARA TITLE III:

- Section 313 Toxic Chemicals: None.
- Section 311/312 Hazardous Categories: None.
- Section 302 Extremely Hazardous Substances: None.

RCRA STATUS: Not regulated.

CANADIAN REGULATIONS:

WHMIS Classification: D2B.





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EXNAMET

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

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