MATERIAL SAFETY DATA SHEET • MSDS





SECTION I • PRODUCT IDENTIFICATION

TRADE NAME **ALUMINUM OXIDE POWDER**

ANAMET PRODUCT NUMBER 57XX-X

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	ACGIH TLV
Aluminum Oxide. (Non-Fibrous), Al ₂ O ₃	1344-28-1	98	10 mg/m ³	10 mg/m ³
Silicon Dioxide. (SiO ₂)	7631-86-9	1	Not established.	6 mg/m ³
Titanium Oxide.	13463-67-7	2-3	10 mg/m ³	10 mg/m ³
Iron Oxide.	1309-37-1	0.1-0.2	10 mg/m ³	10 mg/m ³

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	Not	Vapor pressure	Not	
	available.	(mm Hg)	applicable.	
Melting point in °C	2038 °C	Vapor density (Air = 1)	Not	
	(3700°F)		applicable.	
Specific Gravity	3.97	Evaporation rate	Not	
(Water = 1)	3.97	(Butyl acetate = 1)	applicable.	
Solubility in water	Insoluble.			
Appearance and odor	Black or brown	powder, odorless.		







SECTION IV • FIRE / EXPLOSION HAZAR	RD	HAZ)N F	SIC	0	XPI	RE /	FI	•	IV	NC	CTIC	SEC
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Flash point	Not flamma	ble.		
Flammable limits	LEL	None.	UEL	None.
Extinguishing medium	Not availabl	е		
Special fire fighting procedures	Does not bu	ırn.		
Unusual fire and explosion hazards	None know	n.		

SECTION V • REACTIVITY

Stability	Stable.
Incompatibility	None.
Hazardous decomposition products	Not established.
Hazardous Polymerization	Will not occur.

SECTION VI • TOXICOLOGICAL PROPERTIES OF PRODUCT

A - SUGGESTED FIRST AID

Eyes	Wash with large amounts of water and obtain medical assistance.		
Skin	Wash with soap and water. If irritation persists, obtain medical assistance.		
Inhalation	Remove to fresh air and obtain medical assistance.		
Ingestion	Obtain medical attention. Do not induce vomiting.		

B – TOXICOLOGICAL INFORMATION

	B - TOXICOLOGICAL IN ORMATION		
	PRIMARY ENTRY ROUTES: Inhalation.		
	SHORT TERM EXPOSURE		
Ī	Inhalation May cause coughing and shortness of breath. May affect breathing canacity		

innaiation	May cause coughing and shortness of breath. May affect breathing capacity
Skin	May cause skin abrasion.
Eyes	.Dust can be an irritant.
Ingestion	May cause vomiting and nausea.

LONG TERM EXPOSURE

Carcinogenicity	None.
Teratogenicity, Mutagenicity and other reproductive effects	None.
Skin Sensitization	Prolonged contact may cause skin abrasion.
Respiratory tract sensitization	Dust may slightly be irritating to the respiratory tract at high
	concentrations.
Synergistic materials	None.







SECTION VII • PRECAUTIONARY INFORMATION

PERSONAL PROTECTI	VE MEASURES		
Eyes, face & hands	Recommend standard face and eye protection at all times while		
	using the product.		
Respiratory protection	As needed, use approved dust respirator (OSHA CFR1910.134)		
Ventilation	Do not use without adequate ventilation (OSHA 29CFR1910.9		
	(OSHA 29CFR1910.1000) (OSHA CFR1910.213) (OSHA		
	1910.243). Use adequate local and mechanical exhaust		
	ventilation.		
Hearing	As needed in accordance with OSHA 1910-215.		
HMIS Hazard Ratings	Health: 1 Flammability: 0 Reactivity: 0		

SECTION VIII • SAFETY PRECAUTIONS IN CASE OF LEAKS OR SPILLS			
Spill or leak procedure	Use ordinary precautions for dusts and particulates.		
Waste disposal	Disposal should be in accordance with local, state, or national		
	legislation. Incinerate under approved controlled conditions.		

SECTION IX • STORAGE AND HANDLING

Storage	No special requirements.		
Handling	Minimize generation of dust.		
Shipping classification	Dot Shipping Name: Not regulated.		
DOT hazard class	 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: 1 Flammability: 0 Reactivity: 0		







SECTION X • ECOLOGICAL INFORMATION

Environmental Fate and Distribution	Not established.
Persistence and Degradation	Not established.
Toxicity	Not established.
Effect of effluent treatment	Not established.

SECTION XI • REGULATORY INFORMATION

• EC REGULATIONS:

TSCA STATUS: On Toxic Substance Control Inventory.

CERCLA REPORTABLE QUANTITY: None.

SARA TITLE III

Section 302: None.

• Section 311/312: Chronic.

Section 313: Aluminum Oxide (Fibrous Forms).

RCRA STATUS: Not regulated.

CANADIAN REGULATIONS:

WHMIS Classification: Not regulated.

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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