

MATERIAL SAFETY DATA SHEET • MSDS



SECTION 1 • PRODUCT IDENTIFICATION

TRADE NAME	ABRASIVE WHEEL
ANAMET PRODUCT NUMBER	145-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 (mg/m ³)	ACGIH TLV (mg/m ³)
Aluminum Oxide non Fibrous	1344-28-1	50-90	15.00	10.00
Zirconium oxide	1314-23-4	30-60	5	5
Silicon carbide.	409-21-2	30-75	10	10
Calcium oxide	1305-78-8	0-3	5	2
Cured phenolic resin	9003-35-4	6-20	Not available	Not available
Cured rubber	Not available	0-5	Not available	Not available
Fluorides (as F).	Not available**	1-10	2.50	2.50
Sulfur.	7704-34-9	1-8	Not available.	10.00
Red Iron Oxide.	1309-37-1	0-3	10.00	5.00
Sulphates	Not available	0-10	10	10

NOTE: Ingredients are listed on the TSCA Inventory of Chemical Substances. Those not identified are non-hazardous.

*Materials are regulated by OSHA 29 CFR 1910.1200

**Product is a compound and/or mixture.

***Partially or completely hydrated during cure, becoming calcium hydroxide.

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SECTION III • PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling point in °C	Not applicable.	Vapor pressure (mm Hg)	Not applicable.
Melting point in °C	Not available.	Vapor density (Air = 1)	Not applicable.
Density (Water = 1)	1.8-3	Evaporation rate (Butyl acetate= 1)	Not applicable.
Solubility in water	Insoluble.		
Appearance and odor	Solid, no odor when supplied.		

SECTION IV • FIRE / EXPLOSION HAZARD

Flash point	Product is non-flammable.			
Flammability Limits	LEL	Not applicable.	UEL	Not applicable.
Extinguishing media	Water spray, foam, dry powder or CO ₂ . Keep fire exposed containers cool by spraying with water.			
Special fire fighting procedures	A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.			
Unusual fire and explosion hazards	Carbon Monoxide, carbon dioxide and other irritant gases.			

SECTION V • REACTIVITY

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

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 15 minutes. Obtain medical attention. Never give anything by mouth to an unconscious person. Call a physician.
Skin	Wash affected areas with soap and water. Obtain medical assistance.
Inhalation	Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.

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Ingestion	Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention. Never give anything by mouth to an unconscious person. Call a physician.
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B – TOXICOLOGICAL INFORMATION

PRIMARY ENTRY ROUTES: Inhalation, ingestion, skin, and eye.

▼ SHORT TERM EXPOSURE ▼

Eyes	Dust may irritate eyes.
Skin	Some may experience skin irritation from dust.
Inhalation	Acute: coughing, shortness of breath. Chronic: May affect breathing capacity.
Ingestion	Not known to have adverse effects, but ingestion is not recommended.
Other potential health risks	Grinding may create elevated sound levels which may affect hearing and may aggravate pre-existing respiratory conditions.

▼ LONG TERM EXPOSURE ▼

Carcinogenicity	No ingredients listed by IARC, ACGIH, NTP, and OSHA as a carcinogen.
Teratogenicity, Mutagenicity and other reproductive effects	There is no reason to believe that this product represents a significant mutagenic hazard to man based upon evidence from well conducted animal studies, relevant Mutagenicity studies, and adequate epidemiology studies in relevant cohorts.
Skin Sensitization	This product may cause skin sensitization (allergy).
Respiratory tract sensitization	Not available.
Synergistic materials	Not available.

SECTION VII • PRECAUTIONARY INFORMATION

PERSONAL PROTECTIVE MEASURES

Eye protection	Wear safety glasses. See OSHA 29 CFR 1910.33
Respiratory protection	Respirators are required when airborne contaminant levels exceed the TLV.
Ventilation	Use adequate ventilation. See OSHA 29 CFR 1910.94 & 29 CFR 1910.1000
Hearing	May create elevated sound levels. See OSHA 29 CFR 1910.134. Hearing protection should be worn where required.
Other precautions	See OSHA 29 CFR 1910.25.
HMIS Hazard Ratings	Health: 1 Flammability: 0 Reactivity: 0

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SECTION VIII • SAFETY PRECAUTIONS IN CASE OF LEAKS OR SPILLS

Spill or leak procedure	Clean up in standard manner.
Waste disposal	Follow standard landfill methods consistent with federal, provincial and municipal laws.

SECTION IX • STORAGE AND HANDLING

Storage	Store in a cool well ventilated dry area.
Handling	<ul style="list-style-type: none"> • Always handle and store wheels in a careful manner. • Always visually inspect all wheels before mounting. • Always check machine speed against the established maximum safe operating speed marked on the wheel. • Always check mounting flanges for equal and correct diameter. • Always use mounting blotters on wheels for dry cutting. • Always be sure work rest is properly adjusted. • Always use a safety guard covering at least one half of the grinding wheel. • Always allow newly mounted wheels to run at operating speed, with guard in place, for at least one minute before grinding. • Always turn off coolant before stopping wheel to avoid creating an out-of-balance wheel.
Shipping classification	<ul style="list-style-type: none"> • Dot Shipping Name: Not regulated. • TDG/UN Shipping Names: Not available. • UN Number: Not available.
DOT Hazard Class	<ul style="list-style-type: none"> • Hazard Class: Not available. • Packing Group: Not available. • TDG Exemption: Not available. • Label: Not available. • IATA Class: Not regulated. • IMDG Class: Not regulated.
HMIS Coding	Health: 1 Flammability: 0 Reactivity: 0

SECTION X • ECOLOGICAL INFORMATION

Environmental Fate and Distribution	Insoluble in water.
Persistence and Degradation	Not readily biodegradable.
Toxicity	Not available.
Effect of effluent treatment	The product is substantially removed in biological treatment processes.



SECTION XI • REGULATORY INFORMATION

• EC REGULATIONS:

TSCA STATUS: On Toxic Substance Control Inventory.
 CERCLA REPORTABLE QUANTITY: Not regulated.
 SARA TITLE III

- Section 302: None.
- Section 311/312 None.
- Section 313: None.

RCRA STATUS: Not regulated.

• CANADIAN REGULATIONS:

WHMIS Classification: Not regulated.

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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

HMIS: Hazardous material information sheet

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