

MATERIAL SAFETY DATA SHEET • MSDS



SECTION I • PRODUCT IDENTIFICATION

TRADE NAME	FORMULA 1, (RESIN)
ANAMET PRODUCT NUMBER	206-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/m ³)	ACGIH TLV (mg/m ³)
Poly (Ethyl Methacrylate).	9003-42-3	>99	*	Not available.

* Exposure Limits PEL (OSHA) Particulates not otherwise regulated.

15 mg/m³ - 8 hr TWA - Total Dust.

5 mg/m³ - 8 hr TWA - Respirable Dust.

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 established.	Vapor pressure (mm Hg)	Not established.
Melting point in °C	Not applicable.	Vapor density (Air = 1)	Not established.
Density (Water = 1)	Not established.	Evaporation rate (Butyl acetate = 1)	Not established.
Solubility in water	Negligible.		
Appearance and odor	Powder, typical methacrylate odor.		

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SECTION IV • FIRE / EXPLOSION HAZARD

Flash point	300 °C (572°F).			
Flammable limits	LEL	Not established.	UEL	Not established.
Extinguishing medium	Dry chemical, CO ₂ , Foam, Water Fog (by trained personnel).			
Special fire fighting procedures	Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up. Fight fires from a safe distance or protected areas.			
Unusual fire and explosion hazards	No information is available.			

SECTION V • REACTIVITY

Stability	Stable.
Conditions to avoid	Heat, ignition sources and contamination.
Incompatibility	Incompatible with reducing and oxidizing agents. Material has strong solvent properties and can soften paint and rubber.
Hazardous decomposition products	Decomposes with heat. Decomposition temperature 200 °C (392°F). Hazardous gases/vapors produced are carbon monoxide, organic acids, aldehydes and alcohol. Some organic esters may be generated by decomposing the polymer, these may contain methacrylates.
Hazardous Polymerization	Polymerization will not occur. Avoid excessive heat, storage in absence of inhibitor.

SECTION VI • TOXICOLOGICAL PROPERTIES OF PRODUCT

A - SUGGESTED FIRST AID

Eyes	Flush eyes with plenty of water for at least 15 minutes; call a physician.
Skin	Flush skin with water after contact. Wash contaminated clothing before reuse. If molten polymer gets on skin, cool rapidly with cool water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn.
Inhalation	No specific intervention is indicated as compound is not likely to be hazardous by inhalation. Consult a physician if necessary.
Ingestion	Do not induce vomiting. Wash out mouth with water. Obtain medical attention

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if ill effects occur.

B – TOXICOLOGICAL INFORMATION

PRIMARY ENTRY ROUTES: Ingestion, skin and eye contact.

• SHORT TERM EXPOSURE

Eyes	Mechanical irritation only.
Skin	There is no data on the skin irritation or skin sensitization properties of the powder.
Inhalation	Gross overexposure to nuisance particles, regardless of how generated, may cause irritation of the respiratory tract.
Ingestion	There is no information on the ingestion toxicity of the powder. Ingestion is not a probable route of exposure. Toxicity is predicted to be low.

• LONG TERM EXPOSURE

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Teratogenicity, Mutagenicity and other reproductive effects	Not established.
Skin Sensitization	Not established.
Respiratory tract sensitization	Not established.
Synergistic materials	None.

SECTION VII • PRECAUTIONARY INFORMATION PERSONAL PROTECTIVE MEASURES

Eyes, face and hands	Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields. Neoprene gloves, coveralls and boots are recommended. Do not use protective creams for protection.
Respiratory protection	When levels are exceed, wear self-contained breathing apparatus. Follow the respirator manufacturer's directions for respirator use.
Ventilation	Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements and other suggested exposure limits.
Hearing	As needed in accordance with OSHA 1910-215
HMIS Ratings	Health : 1 Flammability : 1 Reactivity : 0

SECTION VIII • SAFETY PRECAUTIONS IN CASE OF LEAKS OR SPILLS

Spill or leak procedure	Spillages may be slippery. Sweep up and shovel into waste drums or plastic bags. Wash the spill area with water. Do not allow material to contaminate ground water systems.
Waste disposal	Disposal of any spill should be in accordance with local, state, or national

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legislation

SECTION IX • STORAGE AND HANDLING

Storage	Keep in a cool, well ventilated place. Preferably not exceeding 25°C (77°F).
Handling	Avoid contact with skin and eyes. Avoid inhalation of high concentration of vapors. Use in well ventilated area. Keep container closed to prevent water absorption and contamination.
Shipping classification	<ul style="list-style-type: none"> • Dot Shipping Name: Synthetic Gum Resin, Granular. • TDG/UN Shipping Names: Not regulated. • UN Number: Not regulated.
DOT hazard class	<ul style="list-style-type: none"> • Hazard Class: Not regulated. • Packing Group: Not regulated. • TDG Exemption: None • Label: Not regulated. • IATA Class: Not regulated. • IMDG Class: Not regulated.
HMIS Coding	Health: 1 Flammability: 1 Reactivity: 0

SECTION X • ECOLOGICAL INFORMATION

Environmental Fate and Distribution	Solid with low volatility. Is essentially insoluble in water. The product has low potential for bioaccumulation and has a low mobility in soil.
Persistence and Degradation	Non-biodegradable in soil. No evidence of degradation.
Toxicity	Predicted to have low toxicity to aquatic organisms
Effect of effluent treatment	Anticipated to be poorly removed in biological treatment processes.



SECTION XI • REGULATORY INFORMATION

• EC REGULATIONS:

TSCA: On Toxic Substance Control Inventory.
 CERCLA Reportable Quantity: None
 SARA TITLE III

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

RCRA STATUS: Not regulated.

• CANADIAN REGULATIONS:

WHMIS: 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