

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER GENYK Inc. 1701, 3 rd Avenue, Shawinigan, QC, G9T2W6 Phone: 819-729-0395 / Fax: 819-729-0383	PRODUCT Trade Name: BOREAL NATURE RESIN Chemical Name: Polyurethane Resin Chemical family: Polyol Resin Blend Use: Component of a polyurethane system
Emergency Telephone number: CHEMTREC 800-424-9300 / CANUTEC 613-996-6666	

SECTION 2: HAZARDS IDENTIFICATION

PICTOGRAM	
Potential Health Effects	Eye Contact: Vapours may cause glaucopsia and blurred vision. Skin Contact: May cause irritation and dermatitis. Inhalation: May cause headaches, dizziness, drowsiness. Ingestion: May cause irritation to throat, esophagus and stomach and may cause gastrointestinal disturbances.
Carcinogenicity	The components of this product are not listed by IARC or regulated as a carcinogen by OSHA.
Emergency Overview	Irritating to eyes, respiratory system and skin. May be harmful if swallowed.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	%
Mix of Polyols	N/A	40 - 60
Amine Polyol	940912-28-7	10 - 30
Mix of Tertiary Amines	N/A	2.0 – 6.5
Tris-Iso-Chloropropyl Phosphate	13674-84-5	8 - 18
1,1,1,3,3-Pentafluoropropane	460-73-1	5 - 20
1,1,1,3,3-Pentafluorobutane	406-58-6	4 - 12
1,1,1,2,3,3,3-Heptafluoropropane	431-89-0	1 - 5

SECTION 4: FIRST-AID MEASURES

If in eyes	In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.
If on skin	Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.
If inhaled	Move the affected person to fresh air. Assist in breathing if necessary. Immediate medical attention required.
If swallowed	Rinse mouth immediately and drink 200 –300 ml of water, seek medical attention. Do not induce vomiting.
Note to physician	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point	>93°C (> 200°F)
Suitable Extinguishing Media	Water spray, dry powder, carbon dioxide, foam.
Hazards during fire-fighting	No particular hazards known.

Protective equipment for fire-fighting	Firefighters should be equipped with self-contained breathing apparatus.
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SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal Precautions	Avoid breathing vapours. Provide adequate ventilation and use suitable protective equipment.
Environmental Precautions	Do not discharge into drains/surface water/groundwater.
Clean-up	Cover with an absorbent product, scoop up and put in suitable containers for disposal. Do not throw residues in the sewer. Dispose via a licensed waste disposal company. Wash the spill area with soap and water.

SECTION 7: HANDLING AND STORAGE	
Storage Temperature	15 – 25 °C (59 – 77 °F)
Storage Life	6 months
Handling	Do not inhale vapors. Avoid contact with skin and eyes. Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Use only with adequate ventilation and wear appropriate respirator when ventilation is inadequate. Keep the product in the original container or an approved alternative made from a compatible material; keep tightly closed and sealed until ready for use.
Safety Precautions in Storage	Store in a dry, well-ventilated area and in tightly closed containers. Avoid extreme heat and store away from frost.

SECTION 8: EXPOSURE CONTROL / INDIVIDUAL PROTECTION		
EXPOSURE LIMIT VALUES		
Ingredients	WEEL (AIHA) (TWA) – 8 hr	OSHA PEL (TWA) – 8 hr
Polyol Blend	N/A	N/A
Tris-Iso-Chloropropyl Phosphate	N/A	N/A
1,1,1,3,3-Pentafluoropropane	300 ppm	N/A
1,1,1,3,3-Pentafluorobutane	1000 ppm	N/A
1,1,1,2,3,3,3-Heptafluoropropane	1000 ppm	N/A
INDIVIDUAL PROTECTION EQUIPMENT		
Respiratory Protection	Wear a NIOSH approved, legally approved respiratory protection device when necessary and especially in cases where exposure standards may be excessive.	
Eye Protection	Use appropriate chemical goggles or face shields. Do not wear contact lenses when working with this product.	
Skin Protection	Wear chemical resistant gloves and protective clothing.	
General Safety and Hygiene Measures	Wash soiled clothing immediately.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Dark green colored liquid.
Odour	Slight amine odour
Vapor Pressure	N/A
Vapor density	4.6 (1,1,1,3,3 – Pentafluoropropane)
Flash Point	>93 °C (>200°F)
Auto-Ignition Temperature	N/A
Specific Gravity	1.16 to 1.22
Solubility in Water	Moderate
SECTION 10: STABILITY AND REACTIVITY	
Chemical Stability	The product is chemically stable.
Reactivity	No dangerous reactions under normal storage and handling conditions.
Conditions to avoid	Avoid exposure to moisture and low (<0°C) and high temperatures. Avoid open flame.
Substances to avoid	Strong oxidizing and reducing agents.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.

Corrosion to Metals	No corrosive effect on metal.
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SECTION 11: TOXICOLOGICAL INFORMATION	
POTENTIAL ACUTE HEALTH EFFECTS	
Eye Contact	Product liquids and vapours are irritating. Vapors may cause glaucopsia and blurred vision.
Skin Contact	May cause irritation and dermatitis.
Inhalation	May cause headaches, dizziness.
Ingestion	May cause irritation to throat, esophagus and stomach and may cause gastrointestinal disturbances.
POTENTIAL CHRONIC HEALTH EFFECTS	
Sensitization	Not known or reported.
Carcinogenic Effects	The components of this product are not listed by IARC or regulated as a carcinogen by OSHA.
Mutagenic Effects	Not known or reported.
Developmental Effects	Not known or reported.
Reproductive Effects	Not known or reported.

SECTION 12: ECOLOGICAL INFORMATION	
Ecological testing has not been conducted for this product.	
Aquatic Toxicity	Can be harmful in large quantities to aquatic organisms. The product has not been tested; the indication is derived from the properties of individual components.

SECTION 13: DISPOSAL INFORMATION	
Waste Disposal Method	Waste must be disposed of in compliance with federal, state, provincial and local environmental control regulations. Dispose of via licensed waste disposal company.
Empty Containers Disposal	Containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14: TRANSPORTATION INFORMATION	
Technical Name	Boreal Nature Resin.
Land Transport TDG	Not classified as a dangerous good under transport regulations.
Sea Transport IMDG	Not classified as a dangerous good under transport regulations.
Air Transport IATA/ICAO	Not classified as a dangerous good under transport regulations.

SECTION 15: REGULATORY INFORMATION	
WHMIS	Class D-2B / Material causing other toxic effects (toxic)
CEPA (DSL)	All components are listed in the Domestic Substances List.

SECTION 16: INFORMATION		
HMIS Rating (0=minimal/1=slight/2=moderate/3=serious/4=severe)	Health	2
	Fire Hazard	1
	Reactivity	0
This product does not contain ozone depleting substances		
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.		
Prepared by	Genyk Inc.	
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