FV Tech Nano 399 Four Valley Drive, Unit 22 Concord, Ontario, L4K-5Y7 Canada 905-738-3986

PRODUCT: Gamma-nano Marine Electrical Insulation - 100g

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Item Numbers..... AD-710042

Product Identity..... Gamma-nano Marine Electrical Insulation - 100g

Empack Spraytech Inc. Manufacturer.....

98 Walker Drive

Brampton Ontario

Canada

L6T 4H6 905-792-6571

24 hour emergency telephone number....... CANUTEC: (613)-996-6666 collect.

Recommended Use..... Protects against moisture and insulates.

Chemical Family..... Mixture.

Section 02: HAZARDS IDENTIFICATION











CODE: AD-710042

Hazard Classification: Physical Hazards..... Health Hazards.....

Flammable Aerosols - Category 2. Gases Under Pressure - Compressed gas.

Specific Target Organ Toxicity, Single Exposure - Category 3. Specific Target Organ
Toxicity, Repeated Exposure - Category 2. Skin Irritation - Category 3. Eye
Damage/Irritation - Category 2B. Aspiration Hazard - Category 1.

Chronic Aquatic Hazard - Category 2. Environmental Hazards.....

Label Elements:

Signal Word.....

Hazard Statement.....

DANGER.

Flammable Aerosol. Pressurized container: may burst if heated. Causes mild skin irritation. Causes eye irritation. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause damage to the liver and kidneys through prolonged or repeated

exposure. Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Disposal.....

Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a Prevention..... well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do

not pierce or burn, even after use. Wash thoroughly after handling. Avoid release to the

environment.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a Response.....

POISON CENTER if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention. Get medical advice/attention if you feel unwell. Collect spillage. Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F . Store locked Storage.....

up. Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/ container in accordance with local/regional/national/international

regulations. Hazard(s) not otherwise classified (HNOC)... None Known.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS Wt. % Hazardous Ingredients CAS# Hydrocarbons, C7-C9, n-alkanes, 30-60 Proprietary isoalkanes, cyclics 75-28-5 15-40 Isobutane 74-98-6 10-30 Propane 2,6-di-tertiary butyl-p cresol 128-37-0 0.1 - 1

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Section 04: FIRST AID MEASURES

Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance. Skin Contact..... Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Consult a poison control centre or physician immediately. Check for and remove contact lenses. Immediately flush eyes with water for a minimum of Eye Contact..... 15 minutes keeping eyelids open. Consult a doctor if any irritation occurs. If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may Most important symptoms/effects, acute and delayed cause headache, fatigue, dizziness and nausea. May cause redness and pain. Indication of immediate medical attention and Provide general supportive measures and treat symptomatically. In case of shortness of breath give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be special treatment needed delayed.

Section 05: FIRE FIGHTING MEASURES

Special Protective Equipment and Precautions for Firefighters

General Fire Hazards.....

Dry chemical powder. Carbon dioxide. Foam, water spray or fog. Do not use water jet as an extinguisher, as this will spread the fire. In case of fire, the following can be released: Carbon Oxides (CO, CO2), Other unidentified Organic Compounds.

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Firefighters must use standard protective equipment including flame retardant coat, helmet with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Flammable Aerosol.

Section 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 08).

Methods and Materials for Containment and Cleaning Up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Environmental Precautions.....

Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Section 07: HANDLING AND STORAGE

Precautions for Safe Handling.....

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Avoid breathing vapour of this product. Avoid contact with skin and eyes. Avoid prolonged exposure. Use in well-ventilated areas.

Conditions for Safe Storage including any ... Incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C (122°F). Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10).

Section 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	TWA ACG	IH TLV STEL	OSH, PEL	A PEL STEL	NIOSH REL
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	1200 mg/m3	Not available	Not available	Not available	Not available
Isobutane	800 ppm	1000 ppm	800 ppm	Not available	800 ppm (TWA)
Propane	2,500 ppm	Not available	1,000 ppm	Not available	1,000 ppm
2,6-di-tertiary butyl-p cresol	10 mg/m3	Not available	Not available	Not available	Not available
Appropriate Engineering Controls		Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.			
Individual Protection Measures: Eve/Face Protection		Do not get in eyes. Wear safety glasses with side-shields.			

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Section 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

appropriate chemical resistant clothing.

Thermal Hazards...... None Known.

Routinely wash work clothing and protective equipment to remove contaminants.

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Section 09: PHYSICAL AND CHEMICAL PROPERTIES

Aerosol. Amber. Clear liquid. Physical Appearance..... Odor..... Characteristic. N/A. 0.694. 0.823. Aerosol Vapour Pressure (psig, 21°C)..... 60-70. Vapour Density (Air=1)..... N/A. pH.....Boiling Point liquid (°C)..... pH..... N/A -11.72°C (10.9°F). (For propellant). N/A. Closed cup: -83.15 °C (-117.7 °F). (For propellant). Flashback..... N/A. Evaporation Rate (n-Butyl Acetate = 1)...... N/A. VOC Content..... N/A. Solubility in water..... Miscible. Aerosol Flame Projection..... < 75cm. Auto Ignition Temperature (°C)...... Lower Flammable Limit (% Vol)..... Upper Flammable Limit (% Vol).... 460°C (860°F). (For propellant). 1.8. (For propellant). 9.5. (For propellant). Coefficient of Water/Oil Distribution..... N/A.

Section 10: STABILITY AND REACTIVITY

Reactivity Product not reactive under normal conditions of use.

Thin.

Possibility of Hazardous Reactions...... Will not occur.

Viscosity.....

Incompatible Materials...... Keep away from heat. Strong oxidizing agents.

Hazardous Decomposition Products...... Carbon Oxides.

Section 11: TOXICOLOGICAL INFORMATION

Ingredients	LC50	LD50		
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	>23,3 mg/L (Inh.4hr,Rat)	>5000 mg/kg (Oral,Rat); >2800 mg/kg (Dermal,Rabbit)		
Isobutane	658 mg/L (4hrs,Rat)	Not available		
Propane	>800,000 ppm (15 min,Rat)	Not available		
2,6-di-tertiary butyl-p cresol	Not available	10000 mg/kG (Ora,Rat); >5000 mg/kg (Dermal,Rabbit)		
Information on Likely Routes of Exposure: Routes of entry - Inhalation				

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Section 11: TOXICOLOGICAL INFORMATION

Specific Target Organ Toxicity - Single Specific target organ toxicity single exposure Category 3. May cause respiratory irritation. Specific Target Organ, Repeated Exposure- Category 2. May cause damage to the liver

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Exposure

Specific Target Organ Toxicity - Repeated ...

Exposure

Aspiration Hazard.....

and kidneys through prolonged or repeated exposure. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical

pneumonitis, which can be fatal.

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and Chronic Effects..... dermatitis. Breathing high concentrations of vapor may cause anesthetic effects and

serious health effects.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity..... Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. This product contains the following substances which is hazardous for the environment:. Hydrocarbons, C7-C9, n-alkanes, cyclics: Toxicity to fish: LL50 3-10 mg/L, 96hrs; Toxicity to daphnia: EL50 4.6-10 mg/L, 48hrs; Toxicity to algae: EbL50 10-30mg/kg, 72hrs.

The product itself has not been tested.

Persistence and degradability The product itself has not been tested. Bioaccumulation Potential..... Mobility in Soil..... The product itself has not been tested. Other Adverse Effects.....

None Known.

Section 13: DISPOSAL CONSIDERATIONS

Appropriate Disposal Methods..... This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Spilled material and water rinses are classified as chemical waste and

must be disposed of in accordance with current local, provincial and federal regulations. Contents under pressure. Do not puncture, incinerate or expose to heat, even when empty.

Section 14: TRANSPORT INFORMATION

IATA (International- Air)...... AEROSOLS, Class 2.1, UN1950, LTD QTY.

Section 15: REGULATORY INFORMATION

Canada Regulations:.... WHMIS Classification, A: Compressed gas, B5: Flammable Aerosol, D2B: Material causing

other toxic Materials.

Canadian Environmental Protection Act All ingredients listed appear on the Domestic Substances List (DSL).

(CEPA)

US Regulations..... Environmental Protection Act: Constituents of this product are included on the TSCA

inventory.

This product is considered hazardous under the Federal OSHA hazard communication

OSHA.....

standard.

California Proposition 65.....

This product does not contain any chemical(s) known to the state of California to cause

cancer or reproductivity toxicity.

Section 16: OTHER INFORMATION

Disclaimer..... The information contained herin is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the

use thereof. The SDS provider assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of the material. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR. THIS SDS IS VALID FOR THREE YEARS.

Abbreviations.....

ACGIH: American Conference of Governmental Industrial Hygienists; CAS: Chemical Abstract Service; NIOSH: National Institute for Occupational Safety and Health, OSHA: Occupational Safety and Health Administration- USA; TSCA: Toxic Substances Control Act 1976-USA; PEL: Permissible Exposure Limit; REL: Recommended Exposure Limit; TLV: Threshold Limit Value; VOC: Volatile Organic Content; WHIMIS: Workplace Hazardous Materials Information System.

Prepared by Regulatory Affairs

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