

AdvaPel® 776-NY

Section 1. Product and Company Identification

| | |
|--------------------------|--|
| Product Name: | AdvaPel® 776-NY |
| Chemical Name/Family: | Perfluoroalkyl acrylic copolymer emulsion |
| CAS No.: | Proprietary |
| Product Use: | Textile Finishing |
| Restrictions: | For Industrial Use Only |
| Company: | Advanced Polymer, Inc. |
| Address: | 400 Paterson Plank Road Carlstadt, NJ 07072 U.S.A. |
| Telephone: | 201-933-0600 |
| Fax: | 201-933-8442 |
| 24 Hour Emergency Number | 800-424-9300 |
| 24 Hour Chemtrec Number | 800-424-9300 |

Section 2. Hazards Identification

GHS Classification:

| | |
|------------------------------|----------------|
| Physical Hazards | Not classified |
| Health Hazards | Not classified |
| Environmental Hazards | Not classified |

GHS Label:

Symbol: None

Signal Word: None

Hazard Classification:

Hazard Statement: None

Precautionary Statement: None

Other Hazards:

Hazardous decomposition products including hydrogen fluoride and other toxic fluorinated compounds may be formed at high temperatures and during combustion. Inhalation of these compounds may result in serious lung irritation. Excessive exposure could result in delayed pulmonary edema in some cases, and on very high exposure, damage to the liver and kidneys.

Section 3. Composition/Information on Ingredients

| Ingredients | CAS No. | Percent |
|---|---------|---------|
| There are no components contained in this material at concentrations above 1% that are considered hazardous under 29CFR1910.1200. | | |

Section 4. First Aid Measures

| | |
|----------------------|--|
| Skin Contact: | Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention. |
| Eye Contact: | Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if redness or irritation occurs. |
| Inhalation: | Immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Please note: Symptoms may be delayed; prompt medical attention may be required. Call a physician. |
| Ingestion: | Do not induce vomiting. Immediately give 2 glasses of water. Do not give anything by mouth to an unconscious person. Call a physician. |

Section 5. Firefighting Measures

| | |
|--|---|
| Specific Hazards in Case of Fire: | In case of fire or if processing at high temperatures, toxic gases including hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride may be formed. |
| Fire Extinguishing Media: | Water spray jet, dry powder, carbon dioxide and alcohol resistant foam |
| Unsuitable Extinguishing Media: | No information available. |
| Special Protective Equipment and Precaution for Firefighters: | Use NIOSH/MSHA approved self-contained breathing apparatus and other proper protective equipment where this chemical is involved in a fire. Evolution of acidic gases may require complete wash down of protective clothing prior to removal. Use water spray to cool containers. |
| Unusual Fire & Explosion Hazards: | No information available. |

Section 6. Accidental Release Measures

| | |
|---|--|
| Personal Precautions: | Ensure adequate ventilation. Avoid breathing vapors and contact with skin, eyes and clothing. Spilled material is slipping hazard. |
| Protective Equipment: | Wear appropriate personal protective equipment. |
| Environmental Precautions: | Do not allow to contaminate water sources or sewers. |
| Methods and Materials for Containment and Cleaning up: | Soak up with sawdust, sand, oil dry or other absorbent material. Collect spilled material in a container and seal. |

Section 7. Handling and Storage

| | |
|-----------------------------|--|
| Handling Conditions: | Avoid circumstances which release respirable particles. Do not aerosolize or atomize. Hands should be washed thoroughly after handling. Suitable ventilation must be used during application. Shut off all gas pilot and electrical (spark or hot wire) igniters and other sources of ignition during use and until all vapors (odors) are gone. |
|-----------------------------|--|

AdvaPel® 776-NY IS DESIGNED **SOLELY FOR INDUSTRIAL USE**. IT IS NOT SUITABLE FOR USE IN PRODUCTS INTENDED FOR AFTERMARKET OR CONSUMER APPLICATION

With regard to the industrial application of these products, the following handling and usage practices must be observed:

PRECAUTIONS FOR SPRAY APPLICATION:

AdvaPel®776-NY should be used only by trained personnel. **Do not under any circumstances aerosolize these products.** These products should only be dispensed by airless sprayers less than 50 psi with a particle size production of greater than 15 microns or a coarse spray device such as a trigger sprayer. Avoid breathing vapor or spray mist. Never use a paint sprayer to apply these products. Power paint sprayers generate very high pressures, aerosolize the product and create significant combustion hazards.

A respirator must be used when spraying these products and the products should only be used in areas with proper ventilation. Avoid contact with eyes or skin. Glasses or goggles, gloves and other protective clothing should always be worn when the product is used. Avoid contamination of tobacco products. Wash hands thoroughly before smoking.

Use the proper equipment. This includes:

- Exhaust fan
- Low pressure airless sprayer (less than 50 psi)
- Respirator with organic vapor cartridge
- Glasses or goggles, gloves and protective clothing

Before you start spraying:

- Set up cross ventilation, open doors and windows, place a fan blowing out of a window or door to increase exhaust
- Remove all people and animals from the exposure area
- All personnel in the exposure area wear a proper fitting respirator with organic vapor cartridge
- Turn off air conditioning or heating units and remove all ignition sources
- Use low pressure airless sprayer (less than 50 psi)

When spraying solvent-based systems, solvent will continue to evaporate after the product has been applied, so you must do the following until the solvent vapor concentration is below 300 ppm (about 60 minutes):

- Continue cross ventilation
- Keep people and animals out of the spray area
- Continue to wear respirators in the spray area
- Do not expose the treated fabric to open flame or other ignition sources (such as, matches, or cigarette lighters)

After the product dries, only the soil and stain repellent is left behind on the treated substrate. It is safe, non-hazardous and hypoallergenic. The treated substrate will be dry to the touch after 30-60 minutes and is completely dried and ready for use within 24 hours.

Storage Conditions: Store in a tightly closed container. Store in a well-ventilated area. Store away from sources of heat, sparks, flammable materials, and direct sunlight.
*****Agitate contents of container before using*****

Section 8. Exposure Control/Personal Protection

Exposure Limits: No exposure limits available for the product.
Excessive exposure to thermal degradation products could result in delayed pulmonary edema in some cases, and on very high exposure, damage to the liver and kidneys. These substances may include: perfluoroisobutylene (TLV =

0.01 ppm Ceiling) carbonyl fluoride (TLV = 2 ppm TWA, 5 ppm STEL), hydrogen fluoride (TLV = 2 ppm Ceiling, 0.5 ppm TWA).

Appropriate engineering controls:

Local exhaust ventilation must be used if heated above 200°C. Use suitable ventilation to remove mists or vapors during spray or other applications.

Personal protective equipment:

| | |
|-----------------------------|--|
| Respiratory Protection: | Use respirator suitable for protection when spraying this material. If material is heated above 200C, use a positive pressure air supplied respirator or SCBA. |
| Hand Protection: | Wear chemical resistant protective gloves. |
| Eye Protection: | Wear safety glasses with side shields or goggles. |
| Skin and Body Protection: | Chemical resistant protective apron, boots or coveralls as necessary to prevent skin contact. |
| Other Protective Equipment: | Eyewash station and safety shower. |
| Hygiene Measures: | Wash hands thoroughly after handling. |

Section 9. Physical and Chemical Properties

| | |
|-----------------------------------|----------------------------|
| Physical State: | Liquid |
| Color: | Milky white to pale yellow |
| Odor: | Mild |
| Odor Threshold: | Not determined |
| pH: | 3.0 – 6.0 |
| Specific Gravity (77°F): | 1.06 |
| % Non-Volatile by Weight: | ~20.0 |
| % Volatile by Weight: | 80.0 |
| % VOC: | None |
| Melting Point: | Not determined |
| Freezing Point: | Not determined |
| Boiling point: | >212°F |
| Flash Point: | >93°C (199.4°F) Closed Cup |
| Evaporation Rate (BuAc=1): | Not determined |
| Flammability: | Not determined |
| Explosion Limits: | Not determined |
| Vapor Pressure (mmHg): | Not determined |
| Vapor Density (Air=1): | Not determined |
| Solubility: | Soluble in water |
| Partition Coefficient: | Not determined |
| Auto-ignition Temperature: | Not determined |
| Viscosity: | Not determined |
| Decomposition Temperature: | Not determined |

Section 10. Stability and Reactivity

| | |
|----------------------------------|--|
| Chemical Stability: | Stable at normal condition |
| Hazardous Polymerization: | Will not occur |
| Conditions to Avoid: | Excessive heat, sparks and open flame. |
| Incompatible Materials: | May react with metals, such as sodium, magnesium and aluminum at |

elevated temperatures (above 425°C); may react upon prolonged exposure to fluorine or in oxygen-fluorine mixtures at high temperatures and pressures. Contact with incompatible materials may result in fire or explosion.

Hazardous Decomposition Products: In case of fires, hazardous combustion gases are formed: hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride may be formed at very high temperatures.

Section 11. Toxicological Information

Primary Routes of Entry:

| | | | | | | | |
|------|-----|-----------|-----|-------------|-----|------------|-----|
| Eye: | Yes | Skin: Yes | Yes | Inhalation: | Yes | Ingestion: | Yes |
|------|-----|-----------|-----|-------------|-----|------------|-----|

Potential Health Effects:

Inhalation: May be harmful if swallowed.
 Ingestion: May be harmful if swallowed.
 Skin: May cause skin irritation.
 Eyes: May cause mild eye irritation.

Signs and Symptoms of Exposures:

Acute Toxicity: No information available

Chronic Toxicity: No information available

Respiratory or Skin Sensitization: No information available

Mutagenicity: No information available

Carcinogenicity:

| | | | | | |
|-------|----|------|----|-------|----|
| IARC: | No | NTP: | No | OSHA: | No |
|-------|----|------|----|-------|----|

Section 12. Ecological Information

Ecotoxicity (Aquatic and Terrestrial): No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

PBT and vPvB Assessment: No information available

Other Adverse Effects: No information available

Section 13. Disposal Considerations

Product: Comply with Federal, State and Local regulations concerning health and environment when disposing of materials. **DO NOT INCINERATE** unless incinerator is capable of scrubbing hydrogen fluoride and other acidic combustion products.

Disposing of Contaminated Packaging: Regulations may also apply to empty containers, liners, or rinsate.

Section 14. Transport Information

Land Transport (DOT): Not Restricted

Sea Transport (IMDG): Not Restricted

Air Transport (IATA): Not Restricted

Environmental Hazards (e.g., Marine pollutant): No information available

Section 15. Regulatory Information

International Inventories:

| | |
|----------------------|--------------------------|
| TSCA (USA): | Listed |
| DSL (Canada): | No information available |
| ENCS (Japan) | No information available |
| REACH (Europe): | No information available |
| IECSC (China): | No information available |
| KECL (Korea): | No information available |
| PICCS (Philippines): | No information available |
| AICS (Australia): | No information available |
| ERMA (New Zealand): | No information available |

Federal Regulations:

| | |
|--|--------------------------|
| SARA 313: | None |
| SARA 311/312: | No information available |
| Clean Water Act: | No information available |
| Clean Air Act, Section 112 HAPs (See 40CFR61): | No information available |

State Regulations:

| | |
|---|--------------------------|
| Massachusetts Right to Know Components: | No information available |
| New Jersey Right to Know Components: | No information available |
| Pennsylvania Right to Know Components: | No information available |
| California Proposition 65: | No information available |

Section 16. Other Information

WHMIS Classification: No information available

NFPA Rating

| | |
|--------------------|---|
| Health Hazard: | 1 |
| Fire Hazard: | 1 |
| Reactivity Hazard: | 0 |

Date Prepared August 24, 2015
 Prepared By Advanced Polymer, Inc.
 Date Revised
 Revised By

THE INFORMATION AND RECOMMENDATIONS HEREIN, ARE TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. NO WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED.

TO THE CUSTOMERS OF ADVANCED POLYMER, INC.

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss of damage, direct, or consequential arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use. The user assumes all risk and liability whatsoever in connection therewith.

No statement or recommendation contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer. Since the manufacturer of the product described in this technical data sheet has no means of controlling the final use of the product by the consumer for the user, it is the responsibility of the immediate purchaser and any intermediate seller or sellers to inform the user of the purposes for which the product may be fit and suitable and of the properties of the product, including the precautionary measures which must be taken in order to ensure the safety of the user and of other third persons and property.

No statement made herein shall be taken as an authorization or inducement to practice any patented invention without appropriate license.