

AdvaPel®732

Section 1. Product and Company Identification

Product Name: **AdvaPel®732**
Chemical Name/Family: Perfluoroalkylacrylate Emulsion
CAS No.: Mixture
Product Use: Fabric Soil Release
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 with soap and water. Call a physician if irritation develops.
Eye Contact:	Flush with water for at least 15 minutes. Get medical attention.
Inhalation:	Immediately remove to fresh air. Call a physician if respiratory irritation develops and if breathing becomes difficult.
Ingestion:	Do not induce vomiting. Immediately give 3-4 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Section 5. Firefighting Measures

Specific Hazards in Case of Fire:	Flammable vapor may flash back to ignition source. Burning may produce toxic and corrosive products including hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride.
Fire Extinguishing Media:	Use alcohol resistant foam, dry chemical, carbon dioxide, or water in large amount for surrounding fire.
Unsuitable Extinguishing Media:	No information available.
Special Protective Equipment and Precaution for Firefighters:	A self-contained breathing apparatus and protective clothing must be worn in fighting fires involving chemicals.
Unusual Fire & Explosion Hazards:	No information available.

Section 6. Accidental Release Measures

Personal Precautions:	Ensure adequate ventilation. Spilled material is a slipping hazard. Wash hands thoroughly after handling.
Protective Equipment:	Wear safety glasses, apron, and gloves.
Environmental Precautions:	Avoid release into the environment.
Methods and Materials for Containment and Cleaning up:	Collect spilled material in a container and seal. Soak up with sawdust, sand, oil dry or other absorbent material.

Section 7. Handling and Storage

Handling Conditions:	Avoid inhaling vapors or mists. Wear appropriate masks and appropriate protective equipment to avoid contact with eyes, skin or clothing. Avoid circumstances which release respirable particles. For spray applications, use a coarse device such as trigger sprayer, or pressurized dispenser with particle size production of greater than 15 microns. Do not aerosolize or atomize. Hands should be washed thoroughly after handling. Suitable ventilation should be used during application. Do not use at temperature above 200°C. Use at temperatures above 200°C may cause severe respiratory injuries and even death. *** Agitate contents before using. *** PROTECT FROM FREEZING**
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AdvaPel®732 is DESIGNED **SOLELY FOR INDUSTRIAL USE**. THEY ARE 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 products 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 at temperatures between 23°F (-5°C) to 104°F (40°C). Store in a tightly closed container. Store in a well ventilated area. Store away from sources of heat, sparks, flammable materials, and direct sunlight. If material freezes, gently thaw prior to use.

****PROTECT FROM FREEZING****

If the product freeze, allow to thaw then mix thoroughly. Product quality testing should be performed before using the product.

Section 8. Exposure Control/Personal Protection

Exposure Limits:

No information available.

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: Use suitable ventilation to remove spray mists and vapor or fume generated by applications where the fluoropolymers will be exposed to elevated temperatures.

Personal protective equipment:

Respiratory Protection:	If material is heated above 200°C, use a positive pressure air supplied respirator or self-contained breathing apparatus (SCBA).
Hand Protection:	Impervious gloves should be worn.
Eye Protection:	Chemical goggles or face shield.
Skin and Body Protection:	Rubber apron, boots or coveralls as necessary to prevent skin contact.
Other Protective Equipment:	Eye wash equipment and safety shower.
Hygiene Measures:	Wash hands thoroughly after handling material.

Section 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Light Yellow
Odor:	No information available.
Odor Threshold:	No information available.
% Non-volatile by Weight:	No information available.
pH:	5.1
Specific Gravity (77°F):	1.05
% Volatile by Weight:	81
% Non-Volatile by Weight:	19
Melting Point:	No information available.
Freezing Point:	No information available.
Boiling point:	212°F
Flash Point:	No information available.
Evaporation Rate (BuAc=1):	No information available.
Flammability:	No information available.
Explosion Limits:	No information available.
Vapor Pressure (mmHg):	No information available.
Vapor Density (Air=1):	No information available.
Solubility:	Miscible
Partition Coefficient:	No information available.
Auto-ignition Temperature:	No information available.
Viscosity:	No information available.
Decomposition Temperature:	No information available.

Section 10. Stability and Reactivity

Chemical Stability:	Stable
Hazardous Polymerization:	May Not Occur

Conditions to Avoid:	Excessive heat and ignition sources. **PROTECT FROM FREEZING**
Incompatible Materials:	May react with metals, such as sodium, magnesium, 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 and explosion.
Hazardous Decomposition Products:	Hydrofluoric acid, perfluoroisobutylene and carbon fluoride may be formed at very high temperatures.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	Yes	Ingestion:	Yes
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Potential Health Effects:

Inhalation	May cause respiratory irritation. Normally inhalation problems are not expected (unless sprayed or heated). When thermally decomposed, decomposition products of this fluoropolymer may cause polymer fume fever.
Ingestion:	May be harmful if swallowed.
Skin:	May cause mild irritation.
Eyes:	May cause mild 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
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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. Regulations may also apply to empty containers, liners, or rinsate. DO NOT INCINERATE unless incinerator is capable of scrubbing hydrogen fluoride and other acidic combustion products.

Disposing of Contaminated Packaging: As in accordance with EPA and local regulations.

Section 14. Transport Information

Land Transport (DOT):	Not Regulated
UN Number:	Not Applicable
UN Proper Shipping Name:	Not Applicable
Transport Hazard Class:	Not Applicable
Packing Group:	Not Applicable
Sea Transport (IMDG):	Not Regulated
UN Number:	Not Applicable
UN Proper Shipping Name:	Not Applicable
Transport Hazard Class:	Not Applicable
Packing Group:	Not Applicable
Air Transport (IATA):	Not Regulated
UN Number:	Not Applicable
UN Proper Shipping Name:	Not Applicable
Transport Hazard Class:	Not Applicable
Packing Group:	Not Applicable
Environmental Hazards (e.g., Marine pollutant):	None.

Section 15. Regulatory Information

International Inventories:	
TSCA (USA):	All ingredients are listed in EPA's TSCA list of chemical substances. The base polymer is subject to a consent order regarding a pre-manufacturing notice under Section 5(e) of TSCA. In addition, the base polymer is subject to export notification requirements under Section 12(b) TSCA.
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:	No information available.
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.

HMIS Rating:

Health Hazard 1

Flammability: 1

Physical Hazard: 0

Personal Protection Equipment: X

NFPA Rating

Health Hazard: 1

Fire Hazard: 1

Reactivity Hazard: 0

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