

ProvectuPel® 821

Section 1. Product and Company Identification

Product Name: PROVECTUPEL® 821
Chemical Name/Family: Silicone Resin Solution

CAS No.: Mixture

Product Use: Hydrophobic Water Repellent Restrictions: For Industrial Use Only Company: Advanced Polymer.

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 Classifcation:

Flammable Liquids

Serious eye irritation

Category 2

Skin sensitization

Category 1

Aspiration Hazard

Specific target organ toxicity, single exposure

Category 3

GHS Label:



Symbol:

Signal Word: Danger

Hazard Classification:

Hazard Statement:

Highly flammable liquid and vapour

Causes serious eye irritation

May cause an allergic skin reaction

May be fatal if swallowed and enter airways

May cause drowsiness or dizziness

Precautionary Statement:

Prevention



Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion proof ventilation equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and contaminated skin thoroughly after handling. Do not touch eyes.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

Use only outdoors or with adequate ventilation.

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water (or shower).

IN CASE OF FIRE: Use water fog, alcohol resistant foam, dry chemical, or carbon dioxide (CO2) for extinction.

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 help.

IF ON SKIN: Wash with plenty of water and soap.

If skin irritation or rash occurs: Get medical help.

Specific treatment (see supplemental first aid instructions on this SDS).

Take off contaminated clothing and wash it before reuse.

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

Get medical help if you feel unwell.

IF SWALLOWED: Get emergency medical help immediately.

Do NOT induce vomiting.

Storage

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Store locked up.

Disposal

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

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Silicone Resin	Trade secret	20-30
Polydimethylsiloxane	63148-62-9	≥10
Non-tin catalyst	Trade secret	<3
Petroleum distillates	64742-48-9	40.0 – 60.0
Titanium catalyst	Trade secret	<6



Section 4. First Aid Measures

Skin Contact: Take off immediately all contaminated clothing. Rinse affected areas with water (or shower).

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel

Ingestion: Get emergency medical help immediately. Do NOT induce vomiting.

Section 5. Firefighting Measures

Specific Hazards in Case of Fire: Flammable liquid and vapour. In a fire or if heated, a pressure increase will

> occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. During fire, gases hazardous to health may be formed. Hazardous combustion products: Silicone dioxide, oxides of carbon, incompletely burned carbon compounds,

formaldehyde, metal oxides.

Fire Extinguishing Media: Use water fog, alcohol resistant foam, dry chemical, or carbon dioxide

(CO2) to extinguish flames.

Unsuitable Extinguishing Media: Straight streams of water.

Special Protective Equipment

Evacuate area. Prevent runoff from fire control or dilution from entering and Precaution for Firefighters: streams, sewers, or drinking water supply. Firefighters should use standard

> protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. No action shall be taken involving any personal risk or without suitable training. Move container from fire area if this can be done

without risk.

Unusual Fire & Explosion

Hazards:

Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Hazardous material.

Section 6. Accidental Release Measures

Personal Precautions: Caution. Spillages may be slippery.

> For non-emergency personnel: 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 though spilt material. Shut off all ignition sources. No flares, smoking, or slames in hazard area. Avoid breathing vapour or mist. Provide adequate

ventilation. Remove all sources if ignition.

For emergency responders: If specialised clothing is required to deal the spillage, take note of any information for suitable and unsuitable materials.

See also the information in "For non-emergency personnel".

Ensure suitable personal protection (including respiratory protection) during **Protective Equipment:**

removal of spillages.

Environmental Precautions: Avoid release to the environment. Avoid dispersal of spilt material and

> runoff and contact with soil, waterways, drains, and sewers. Inform the relevent authorities if the product has caused environmental

pollution(sewers, waterways, soil, or air).

Methods and Materials for Land Spill: Eliminate all ignition sources (no smoking, flares, sparks, or flames



Containment and Cleaning up:

in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walkthrough spilled material. Prevent entry into waterways, sewer, basements, or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapor; but may not prevent ignition in closed spaces. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. If the Flash Point exceeds the Ambient Temperature by 10 degrees C or more, use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. If the Flash Point does not exceed the Ambient Air Temperature by at least 10C, use booms as a barrier to protect shorelines and allow material to evaporate. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Section 7. Handling and Storage

Handling Conditions: Avoid contact with skin, eyes, or clothing. Use personal protective equipment

as required. Avoid ingestion. Use only with sufficient ventilation. Wash thoroughly after handling. General hygiene measures for the handling of chemicals are applicable. Ground/bond container and receiving equipment. Take precautionary measures against electrostatic discharges. Do not reuse

containers. ***Agitate before use. ***

Storage Conditions: Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place.

Store locked up. Keep container tightly closed. Keep away from heat sparks and open flame. Store away from incompatible materials. If the product freezes, allow the product to thaw then mix thoroughly. Product quality testing should

be performed before using.

Section 8. Exposure Control/Personal Protection

Exposure Limits:

Substance name	Form	Limit Standard		
Petroleum Distillates		TWA	400 mg/m3	100 ppm
Petroleum Distillates	Vapor	RCP-TWA	1200 mg/m3	196 ppm

Appropriate engineering controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airbourne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Provide eyewash station.

Personal protective equipment:

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations

at a level which is adequate to protect worker health, an approved respirator



may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include half-face filter respirator. If ventilation is insufficient when heating use chemical respirator with organic

vapor cartridge.

Hand Protection: Wear chemical-resistant, imprevious gloves complying with an approved

standard when handling chemical products.

Eye Protection: Wear protective eyewear (goggles, face sheild, or safety glasses).

Skin and Body Protection: Protective apron or clothing. Appropriate footwear.

Other Protective Equipment: Eye wash equipment and safety shower.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practice good housekeeping.

Section 9. Physical and Chemical Properties

Physical State: Liquid
Color: Colorless

Odor: Mild, Alcohol like

Odor Threshold: No information available.

% Non-volatile by Weight: ~45% pH: N/A Specific Gravity (77°F): 0.85 % Volatile by Weight: ~55%

Melting Point:No information available.Freezing Point:No information available.Boiling point:No information available.

Flash Point: ≤23°C (closed cup)

Evaporation Rate (BuAc=1):

Flammability:

No information available.

No information available.

No information available.

No information available.

Vapor Pressure (mmHg):

Vapor Density (Air=1):

No information available.

Solubility: Negligible

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 under normal conditions of storage and use.

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid: Avoid heat, sparks, open flames, and other ignition sources. Do not

pressurize, cut, weld, braze, drill, grind, or expose container to heat or



sources of ignition.

Incompatible Materials: Oxidizing materials, phenols, and acids. Hydrolyses in water to form 2-

propanol and titanium dioxide.

Hazardous Decomposition Products: Silicon dioxide, oxides of carbon, incompletely burned carbon

compounds, formaldehyde.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:YesSkin:YesInhalation:YesIngestion:Yes

Potential Health Effects:

Inhalation May cause drowsiness or dizziness.

Ingestion: May be fatal if swallowed and enter airways.

Skin: May cause irritation with prolonged exposure.

Eyes: Causes serious eye irritation.

Signs and Symptoms of Exposures: No information available.

Acute Toxicity: Petroleum distillates:

Inhalation: (Rat) 8-hour(s) LC50 > 5000 mg/m3 (Vapor)

Oral (Rat): LD50 > 5000 mg/kg Skin (Rabbit): LD50 > 5000 mg/kg

Silicone resin:

Inhalation: LC50 >3.54 mg/L No information available. No information available.

Serious eye damage/eye irritation: Causes serious eye irritation

Aspiration hazard: Petroleum distillates: May be fatal if swallowed and enters airways. Based

on physicochemical properties of the material.

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: No information available.

Specific target organ toxicity, single

exposure):

Chronic Toxicity:

Skin corrosion/irritation:

Not expected to cause organ damage from a single exposure.

Specific target organ toxicity,

repeated exposure):

Not expected to cause organ damage from prolonged or repeated

exposure.

Reproductive toxicity: Not expected to be a reproductive toxicant.

Germ cell 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: High mobility in soil expected. Highly volatile, will partition rapidly to air.

PBT and vPvB Assessment: No information available.

Other Adverse Effects: No information available.



Section 13. Disposal Considerations

Product: The generation of waste should be avoided or minimized wherever

possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of the environmental protection and waste legislation and any local waste

management regulations.

Disposing of Contaminated

Packaging:

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations

Section 14. Transport Information

Land Transport (DOT):

UN Number: UN1866

UN Proper Shipping Name: Resin solution

Transport Hazard Class: 3
Packing Group: III

Sea Transport (IMDG):

UN Number: UN1866

UN Proper Shipping Name: Resin solution

Transport Hazard Class: 3
Packing Group: III

Air Transport (IATA):

UN Number: UN1866

UN Proper Shipping Name: Resin solution

Transport Hazard Class: 3
Packing Group: III
Environmental Hazards (e.g., Marine pollutant): None

Section 15. Regulatory Information

International Inventories:

TSCA (USA): Listed
DSL (Canada): Listed
ENCS (Japan) Listed

REACH (Europe): No information available

IECSC (China): Listed

KECL (Korea): No information available

PICCS (Philippines): Listed AICS (Australia): Listed

ERMA (New Zealand): No information available



No

Federal Regulat

SARA 313: No information available.

SARA 311/312: Immediate health hazard (acute):

> Delayed health hazard (chronic): No Fire hazard: Yes Sudden release of pressure No

hazard:

Reactive hazard:

None.

Clean Water Act (40CFR117.3): Clean Air Act, Section 112 HAPs (See 40CFR61): None

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	2	
Flammability:	3	
Physical Hazard:	0	
Personal Protection Equipment:	X	
NFPA Rating		
Health Hazard:	2	
Fire Hazard:	3	
Reactivity Hazard:	0	

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Date Revised

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