400 PATERSON PLANK ROAD | CARLSTADT, NJ 07072
PHONE: (201) 933-0600 | FAX: (201) 933-8442
WWW.ADVPOLYMER.COM

PROVECTUPEL® 782

Section 1. Product and Company Identification

Product Name:	**PROVECTUPEL® 782**
Chemical Name/Family:	Modified organopolysiloxane dispersion
CAS No.:	Proprietary
Product Use:	Coating - Ambient Cure
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:

Hazard Class	Category
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity (fertility)	Category 2

GHS Label:

Symbol:

Signal Word: **Danger**

Hazard Classification:

Hazard Statement:

Causes skin irritation

Causes serious eye damage

Suspected of damaging fertility or the unborn child

Precautionary Statement:

Prevention

Wash hands and contaminated skin thoroughly after handling.

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

Obtain, read and follow all safety instructions before use.

Response

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

Specific treatment refers to supplemental first aid instruction.

If skin irritation occurs: Get medical help.

Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical help.

IF exposed or concerned, get medical advice.

Storage

Store locked up.

Disposal

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

Other Hazards:

None known

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Modified organopolysiloxane	Trade Secret	15-25
2-Butoxy ethanol	111-76-2	9-11
Water	7732-18-5	60-70

Section 4. First Aid Measures

Skin Contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash with soap and plenty of water before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician, preferably an ophthalmologist. Suitable emergency eye wash facility should be available in work area.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion: Rinse mouth with water. Get medical attention immediately. Immediately after ingestion: give lots of water to drink. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconsious person. Do not induce vomiting unless directed to do so by medical personnel.

Section 5. Firefighting Measures

Specific Hazards in Case of Fire: During a fire, smoke may contain the original material in addition to combustion products of varying coposition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

Fire Extinguishing Media: Water fog or fine spray. Dry chemical powder. Carbon dioxide (CO2). Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function but will be less

	effective.
Unsuitable Extinguishing Media:	Do not use a solid water stream as it may scatter and spread fire.
Special Protective Equipment and Precaution for Firefighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus. If protective equipment is not available or not used, fight fire from a protected location or safe distance.
Unusual Fire & Explosion Hazards:	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Container may rupture from gas generation in a fire sitaution. Violent steam generation or eruption may occur upon application of direct water steam to hot liquids.

Section 6. Accidental Release Measures

Personal Precautions:	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch or walk through spilled material.
Protective Equipment:	Ensure adequate ventilation. Wear appropriate personal protective equipment. Gloves. Face-shield. Protective clothing.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Avoid discharge from entering into soil, ditches, sewers, basements, confused areas, drains, water courses, or onto the ground.
Methods and Materials for Containment and Cleaning up:	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc) away from spilled material. A vapor suppressing foam may be used to reduce vapors. Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

Section 7. Handling and Storage

Handling Conditions:	Provide adequate ventilation. Use adequare ventilation when this product is heated at approximately 150 °C (300 °F) and above in the presence of air. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. Use care in handling/storage. Keep away from open flames, hot surfaces and souces of ignition. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not smoke. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equopment. When using, do not eat, drink, or smoke. Wash hands thoroughly after handling. Do no breathe mist or vapor. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Do not use this product for consumers spray.
Storage Conditions:	Store locked up in cool dry place out of direct sunlight. Keep away from heat, sparks, and open flame. Store in well-ventilated place. Keep container

tighly closed. Keep out of the reach of children. Store away from incompatible materials. Keep in original container.

Section 8. Exposure Control/Personal Protection

Exposure Limits:	**2-Butoxy ethanol (CAS # 111-76-2):**
	TWA 20 ppm (ACGIH)
	TWA 5 ppm; 24 mg/m3 (NIOSH REL)
	TWA 50 ppm; 240 mg/m3 (OSHA Z-1)
	TWA 25 ppm (OSHA PO)
Appropriate engineering controls:	Explosion-proof general and local exhaust ventilation.
Personal protective equipment:	
Respiratory Protection:	If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
Hand Protection:	Wear protective gloves that are chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate (“EVAL”). Examples of acceptable glove barrier materials include: Natural rubber (“latex”). Neoprene. Nitrile/butadiene rubber (“nitrile” or “NBR”). Polyvinyl chloride (“PVC” or “vinyl”).
Eye Protection:	Tightly sealed safety glasses according to EN 166. If exposure causes eye discomfort, use a full face respirator.
Skin and Body Protection:	Wear suitable protective clothing.
Other Protective Equipment:	Eye wash equipment and safety shower.
Hygiene Measures:	When using, do not eat, drink, or smoke. Do not get in eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So use adequare ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.

Section 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear
Odor:	Amine odor
Odor Threshold:	Not information available
% Non-volatile by Weight:	~18 %
pH:	~7.0
Specific Gravity (77°F):	~1.00
% Volatile by Weight:	82%
Melting Point:	Not information available
Freezing Point:	Not information available
Boiling point:	>212◦F (100°C)

Flash Point:	≥100°C
Evaporation Rate (BuAc=1):	Not information available
Flammability:	Not information available
Explosion Limits:	Not information available
Vapor Pressure (mmHg):	Not information available
Vapor Density (Air=1):	Not information available
Solubility:	Dispersible in water
Partition Coefficient:	Not information available
Auto-ignition Temperature:	Not information available
Viscosity:	~19.4 cps
Decomposition Temperature:	Not information available

Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal conditions
Hazardous Polymerization:	Hazardous polymerization does not occur.
Conditions to Avoid:	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible Materials:	Strong oxidizing agents. Strong acids and bases. Amines, ammonia, and acid chlorides.
Hazardous Decomposition Products:	Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides. Formaldehyde. Aldehydes. Ketones. Organic acids.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	YES	Skin:	YES	Inhalation:	NO	Ingestion:	NO

Potential Health Effects:

Inhalation	No significant effects are expected.
Ingestion:	May be harmful if swallowed.
Skin:	Causes skin irritation.
Eyes:	Causes serious eye damage.
Signs and Symptoms of Exposures:	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Acute Toxicity:	2-Butoxy ethanol (CAS 111-76-2) LD50 Inhalation Rat >450 ppm
Chronic Toxicity:	No information available
Skin corrosion/irritation:	Brief contact may cause moderate skin irritation with local redness. Modified organopolysiloxane : SKIN-RABBIT : 500mg/24 r MILD
Serious eye damage/eye irritation:	Causes serious eye damage. Modified organopolysiloxane : EYE-RABBIT : MILD
Aspiration hazard:	No information available.
Skin sensitization:	No evidence of sensitization.

Respiratory sensitization:	No information available.
Specific target organ toxicity, single exposure):	May cause drowsiness or dizziness.
Specific target organ toxicity, repeated exposure):	No information available.
Reproductive toxicity:	Octamethylcyclotetrasiloxane administered to rats by whole body inhalation at concentrations of 500 and 700 ppm for 70 days prior to mating, through mating, gestation and lactation resulted in decreases in live litter size. Additionally, increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia) were observed at these concentrations. Statistically significant alterations in these parameters were not observed in the lower concentrations evaluated (300 and 70 ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreased in the number of implantation sites and live litter size. Modified organopolysiloxane: The significance of these findings to humans is not known.
Germ cell Mutagenicity:	Modified organopolysiloxane: Negative (Bacteria)

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:	Dispose of contents/container in accordance with local/regional/international regulations. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Disposing of Contaminated Packaging:	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14. Transport Information

Land Transport (DOT):	**Not Regulated**
UN Number:	No information available
UN Proper Shipping Name:	No information available
Transport Hazard Class:	No information available
Packing Group:	No information available
Sea Transport (IMDG):	**Not Regulated**
UN Number:	No information available
UN Proper Shipping Name:	No information available

Transport Hazard Class:	No information available
Packing Group:	No information available
Air Transport (IATA):	**Not Regulated**
UN Number:	No information available
UN Proper Shipping Name:	No information available
Transport Hazard Class:	No information available
Packing Group:	No information available
Environmental Hazards (e.g., Marine pollutant):	None

Section 15. Regulatory Information

International Inventories:

TSCA (USA):	Yes	
DSL (Canada):	One or more ingredients not listed	
ENCS (Japan)	Yes	
EINECS (Europe):	Yes	
IECSC (China):	Yes	
KECL (Korea):	Yes	
PICCS (Philippines):	Yes	
AICS (Australia):	Yes	
ERMA (New Zealand):	Yes	

Federal Regulations:

SARA 313:	None listed.	
SARA 311/312:	Immediate health hazard (acute):	Yes
	Delayed health hazard (chronic):	No
	Fire hazard:	No
	Sudden release of pressure hazard:	No
	Reactive hazard:	No
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	2
Flammability:	1
Physical Hazard:	0
Personal Protection Equipment:	X
NFPA Rating	

Health Hazard:	2
Fire Hazard:	1
Reactivity Hazard:	0

Date Prepared ..... March 15, 2023
Prepared By .....Advanced Polymer.
Date Revised .....
Revised By .....Advanced Polymer.

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

ADVANCED POLYMER INC

400 PATERSON PLANK ROAD | CARLSTADT, NJ 07072
PHONE: (201) 933-0600 | FAX: (201) 933-8442
WWW.ADVPOLYMER.COM

TO THE CUSTOMERS OF ADVANCED POLYMER.

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.