

Section 1: Identification

PRODUCT IDENTIFIER: DIAMAT POLYCRYSTALLINE DIAMOND SUSPENSION

CHEMICAL FAMILY: Abrasive

EMERGENCY PHONE: CHEMTREC 800-424-9300 (US) Day or night

Customer No. 16568

MANUFACTURER: PACE Technologies
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Section 2: Hazard(s) Identification

GHS CLASIFICATION:	Specific target organ toxicity - repeated exposure (Category 2)
PICTOGRAM(s):	
SIGNAL WORD:	Warning
HAZARD STATEMENTS:	Hazard Statement(s): H373- Causes damage to organs through prolonged or repeated exposure
PRECAUTIONARY STATEMENTS:	Precautionary Statement(s): Preventions: P260- Do not breathe dust/fume/gas/vapors/spray. P280- Wear protective gloves/protective clothing/eye protection/face protection. Response: P314-Get medical advice/attention if you feel unwell. Storage: P401 – Store in accordance with local, regional, national, and/or international regulations. Disposal: P501- Dispose of contents/container to Federal, State and Local Regulations.

Section 3: Composition/Information on Ingredients

CHEMICAL NAME	APPRX %	REG* (Y/N)	CAS #	OSHA P.E.L. (mg/m3)	ACGIH TLV (mg/m3)	CARCIN.
Ethylene Glycol **	35-55	N	107-21-1	125	100	N
Glycerine	1-5	N	56-81-5	15	10	N
Water	45-65	N	7732-18-5	None	None	N
Diamond	0.2-5	N	7782-40-3	10	10	N

** Subject to EPA section 313 reporting SARA 40 CFR part 372

Product formulation is Proprietary

No ingredients are known to be hazardous under normal usage.

Section 4: First-Aid Measures

EYE CONTACT:

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/

SKIN CONTACT:

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash clothing before reuse.

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. If not breathing, give artificial respiration. If signs/symptoms continue, get medical attention.

INGESTION:

Never give anything by mouth to an unconscious person. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Skin or eye irritation, stomach ache, nausea, dizziness, diarrhea, vomiting or headache. Refer to Section 11 – Toxicological Information

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Notes to Physician: Treat symptomatically.

Section 5: Fire-Fighting Measures

EXTINGUISHING MEDIA: LARGE FIRES: Water spray, fog or regular foam
SMALL FIRES: Dry Chemical, Water Spray, regular foam or CO₂

UNSUITABLE EXTINGUISHING MEDIA: High pressure water stream

FIREFIGHTING PROCEDURES: Keep unauthorized personnel away
LARGE FIRES: Do not scatter spilled material with high pressure water streams.
SMALL FIRES: Move containers from fire area if you can do it without risk.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Some of these materials may burn, but none ignite readily.

ADVICE FOR FIREFIGHTERS: Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear positive pressure self-contained breathing apparatus (SCBA)

FIRE-FIGHTING EQUIPMENT: Fire may produce toxic thermal decomposition products. Wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS: Do not walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.

EMERGENCY PROCEDURES: Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

ENVIRONMENTAL PRECAUTIONS: LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined

SPILLS: areas. Runoff from fire control or dilution water may cause pollution.

CONTAINMENT: Use appropriate Personal Protective Equipment (PPE).
Stop leak if you can do it without risk.
Prevent entry into waterways, sewers, basements or confined areas.
LARGE SPILLS: Dike far ahead of spill for later disposal.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Section 7: Handling and Storage

HANDLING PRECAUTIONS: Use only with adequate ventilation or closed system ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Avoid breathing dust, fume, gas, mist, vapors and/or spray. Use appropriate Personal Protective Equipment (PPE).

STORAGE REQUIREMENTS: Keep container tightly closed. Store in a cool, dry, well-ventilated place. Ventilate enclosed areas.

Section 8: Exposure Controls/ Personal Protection

EYE PROTECTION: Avoid eye contact. Wear safety glasses or chemical goggles in accordance with OSHA 29 CFR 1910.133

SKIN PROTECTION: Avoid skin contact. Wear chemical protective gloves. Depending upon conditions of use, additional protection may be necessary such as a face shield, apron, etc.

VENTILATION: Local ventilation is generally not necessary under normal conditions of use with adequate general ventilation. Ventilation and other forms of engineering controls are the preferred means for controlling chemical exposures.

RESPIRATORY PROTECTION: Avoid breathing in mist. Respiratory protection is generally not necessary under normal conditions or use with adequate general ventilation.

SAFETY STATIONS: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

OTHER PRECAUTIONARY Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using

INFORMATION: toilet, or applying cosmetics.

Section 9: Physical and Chemical Properties

SPECIFIC GRAVITY: 1.05-1.2	BOILING POINT: > 130° C
VAPOR DENSITY: Not available	MELTING POINT: <-10° C
SOLUBILITY IN WATER: 100% Soluble	ORGANIC SOLVENT SOLUBILITY: Insoluble
APPEARANCE: Cloudy liquid solution. It is typically a dark color, however it is not unusual to see the following colors: Yellow, Orange, Green, Blue, Red, Brown, Black, Purple.	VAPOR PRESSURE: No data available
ODOR: Faint order	pH: 9-10
EVAPORATION: Water	PERCENT VOLATILE: Not available
IGNITION TEMPERATURE: Not available	FLASH POINT: Not available

Section 10: Stability and Reactivity

STABILITY: Stable at room temperature in closed contains under normal storage and handling conditions.

POLYMERIZATION: This product will not undergo hazardous polymerization.

CHEMICAL INCOMPATIBILITIES: Not available.

CONDITIONS TO AVOID: Strong acids and bases. Heat source.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition may occur during combustion, generating oxides of carbon.

Section 11: Toxicological Information

TOXICITY DATA:

- EYE EFFECT:** Under normal conditions of use, no health effects are expected.
- SKIN EFFECT:** Under normal conditions of use, no health effects are expected.
- INHALATION EFFECTS:** Under normal conditions of use, no health effects are expected.
- INGESTION EFFECT:** Acute (Immediate) – Swallowing large amounts may cause injury. Under normal conditions of use, no health effects are expected.
- Chronic (Delayed) – Repeated and prolonged exposure may affect the kidneys. Symptoms may include but are not limited to weight loss, nausea, swelling of the arms and legs, vomiting, fatigue, headaches, decreased urine or urine that is mostly water, decreased mental sharpness, and muscle cramps and shakes. Repeated and prolonged exposure may cause gastrointestinal disturbances, including diarrhea, nausea, and vomiting.
- CARCINOGENICITY:** Not carcinogenic in animal studies.

Section 12: Ecological Information

- TOXICITY:** This product is not expected to have toxic effects on aquatic life. It is recommended that necessary precautions be taken to prevent release of this material into sewers, streams or bodies of water.
- SOIL ABSORPTION/
MOBILITY:** No data available.
- DEGRADABILITY:** This material is readily biodegradable.
- RESULTS OF PBT AND
vPvB ASSESSMENT:** The components of this material do not meet the criteria for classification as PBT or vPvB.
- ENVIRONMENTAL FATE
AND EFFECT:** Under normal conditions of use, no health effects are expected.

Section 13: Disposal Considerations

DISPOSAL: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

CONTAINER DISPOSAL: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

Section 14: Transportation Information

DOT (CFR49): NOT REGULATED.

IATA (air): NOT REGULATED.

IMDG (ocean): NOT REGULATED.

HAZARD CLASSIFICATION: NON-HAZARDOUS.

PACKING GROUP: NOT REGULATED.

UN/NA CODE: NOT REGULATED.

Section 15: Regulatory Information

United States – Labor

U.S. – OSHA – Process Safety Management – Highly Hazardous Chemicals

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

U.S. – OSHA – Specifically Regulated Chemicals

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

United States – Environment

U.S. – CAA (Clean Air Act) – 1990 Hazardous Air Pollutants

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

U.S. – CERCLA/SARA – Hazardous Substances and their Reportable Quantities

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	5000 lb final RQ: 2270 kg final RQ
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

U.S. – CERCLA/SARA – Radionuclides and their Reportable Quantities

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed

Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances EPCAR RQ's

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances TPQs

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

U.S. – CERCLA/SARA – Section 313 Emission Reporting

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	1.0% de minimis concentratin
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

U.S. – CERCLA/SARA – Section 313 – PBT Chemical Listing

CHEMICAL NAME	CAS #	REG*
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Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

United States – California
U.S. – California – Proposition 65 – Carcinogens List

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

United States – California
U.S. – California – Proposition 65 – Developmental Toxicity

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Developmental toxicity, 6/19/2015 (ingested)
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

United States – California
U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL)

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

United States – California
U.S. – California – Proposition 65 – No Significant Risk Levels (NSRL)

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

United States – California
U.S. – California – Proposition 65 – Reproductive Toxicity - Female

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

United States – California
U.S. – California – Proposition 65 – Reproductive Toxicity - Male

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

United States – Pennsylvania
U.S. – Pennsylvania – RTK (Right to Know) – Environmental Hazard List

CHEMICAL NAME	CAS #	REG*
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Ethylene Glycol **	107-21-1	
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

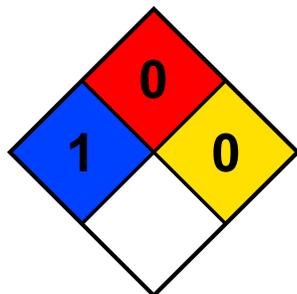
United States – Pennsylvania

U.S. – Pennsylvania – RTK (Right to Know) – Special Hazardous Substances

CHEMICAL NAME	CAS #	REG*
Ethylene Glycol **	107-21-1	Not Listed
Glycerine	56-81-5	Not Listed
Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed

Section 16: Other Information

16.1 NFPA 704



Top, Flammability: 0 – Minimal Hazard

Left, Health Hazard: 1 – Slight Hazard

Right, Reactivity: 0 – Minimal Hazard

Bottom, Special Notice: N/A

Additional Information

NA = NOT APPLICABLE

NE = NOT ESTABLISHED

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