# Adámas Nanotechnologies, Inc.

www.adamasnano.com Safety Data Sheet Version No: 1.30 Revision Date: 1/15/2018 Print Date: 1/15/2018

Brilliant Diamond Solutions

## **SAFETY DATA SHEET**

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### **1.1 Product identifiers**

Product Form	:	Colloidal Suspension
Product Name	:	Synthetic (High Pressure High Temperature) Nanocrystalline diamond suspension in DI water
CAS No.	:	7782-40-3
Chemical Formula	:	C

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company: Adámas Nanotechnologies 8100 - 120 Brownleigh Drive Raleigh, NC 27617 – 7300 Tel: 919-618-4515

### 1.4 Emergency contact

Tel: 919-618-4515

#### **SECTION 2. HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Name	Product Identifier	Composition	GHS-US Classification
Diamond	CAS No.: 7782-40-3	<=1%	Not a hazardous substance or mixture
Water	CAS No.: 7732-18-5	>=99%	Not a hazardous substance or mixture

### SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

### SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.

For personal protection see section 8.

### **6.2 Environmental precautions**

No special environmental precautions required.

### 6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

### SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Heat sensitive. Do not freeze.

Storage class (TRGS 510): Non Combustible Liquids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### Components with workplace control parameters

Contains no substances with occupational exposure limit values

### 8.2 Exposure controls

### Appropriate engineering controls

General industrial hygiene practice

### Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). **Skin protection** 

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

No special environmental precautions required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

1103						
:	white/milky liquid suspension					
:	No data available					
:	No data available					
:	6.5					
:	0°C (32°F)					
:	100°C (212°F)					
:	No data available					
:	No data available					
:	No data available					
:	No data available					
:	15 Torr (25°C)					
:	No data available					
:	3.5 g/cm3(diamond)					
	1.0 g/cm3 (water)					
:	No data available					
:	No data available					
:	No data available					
:	No data available					
:	1 cP					
:	No data available					
:	No data available					
:	18 AMU					
9.2 Other safety information						

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available 10.2 Chemical stability Stable under recommended storage conditions 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid No data available 10.5 Incompatible materials Strong oxidizing agents 10.6 Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5

### SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity No data available

Inhalation: No data available Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information

#### RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

#### No data available 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects No data available

NU Udla avaliable

#### SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. **Contaminated packaging** Dispose of as unused product.

#### SECTION 14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

### IMDG

### ΙΑΤΑ

Not dangerous goods

### SECTION 15. REGULATORY INFORMATION

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

Water CAS-No. 7732-18-5 Revision Date

### New Jersey Right To Know Components

Water CAS No.: 7732-18-5 Diamond CAS No.: 7782-40-3 Revision Date

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **SECTION 16. OTHER INFORMATION**

### **HMIS Rating**

Health hazard: 1 Chronic Health Hazard: Flammability: 0 Physical Hazard 0

### NFPA Rating

Health hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0

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