


# SAFETY DATA SHEET

## Water Soluble Diamond Compound

Prepared on 06/24/2019

1: Identification of the substance/mixture and of the company / undertaking	
1.1: Product identifier	
<b>Substance Name</b>	Water Soluble Diamond Compound
<b>CAS No.</b>	See Section 3
<b>Product Description</b>	Water/Oil Soluble – Color varies with micron size
1.2: Relevant identified uses of the substance or mixture and uses advised against	
<b>Identified Uses</b>	Industrial abrasive
<b>Uses advised against</b>	None Known
1.3: Details of the supplier of the safety data sheet	
<b>Manufacturer</b>	Plastic Process Equipment, Inc.
<b>Address</b>	8303 Corporate Park Dr. Macedonia, Ohio 44056
<b>Phone</b>	216-367-7000
<b>Fax</b>	216-367-7022
<b>E-mail</b>	sales@ppe.com
<b>Contact Info</b>	Plastic Process Equipment, Inc.
<b>Address</b>	8303 Corporate Park Dr. Macedonia, Ohio 44056
<b>Phone</b>	216-367-7000
1.4 : Emergency telephone numbers	
<b>United States Emergency No. (Chemtrec)</b>	800-424-9300
<b>Emergency telephone (Chemtrec)</b>	800-424-9300
<b>Available outside office hours (24 Hours)</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2: Hazards Identification	
2.1: Classification of the mixture	
<b>Classification according to UN GHS:</b>	Aspiration Hazard 1 – H304 Skin Irritant 2 – H315 Eye Irritant 2B – H320
2.2: Label elements (according to EC 1272/2008 )	
<b>Hazard pictogram(s):</b>	
<b>Signal word:</b>	<b>Danger</b>
<b>Hazard Statement(s):</b>	H304 – May be fatal if swallowed and enters airways H315 – Causes mild skin irritation H320 – Causes eye irritation
<b>Precautionary statement(s):</b>	P202 - Do not handle until all safety precautions have been read and understood. P264 – Wash hands thoroughly after handling. P280 – Wear appropriate personal protective equipment when handling product. Including face protection (safety glasses w/side shields) and impervious gloves (nitrile). P305+P351+P338 – If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P3131 – If exposed or concerned: Get medical advice/attention.  
P273 – Avoid release to the environment.  
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 3: Composition / information on ingredients

#### 3.1: Mixture

Identification Name	CAS Number	Weight % Content
Mineral Oil	8042-47-5	40-60%
Distillates (Petroleum), Hydrotreated Heavy	64742-52-5	20-40%
Diamond	7782-40-3	<20%*
Proprietary Ingredients	NA	<0.1-10%*
* The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret. All remaining components are considered to be non-hazardous per 1910.1200.		

### 4: First aid measures

#### 4.1: Description of first aid measures

Eyes	Immediately flush eyes with plenty of water lifting lower and upper eyelids occasionally, until abrasive material is removed. Get medical attention if irritation persists. After initial flushing, remove any contact lenses if worn.
Inhalation	Remove to fresh air. Seek medical attention if required.
Ingestion	No ingestion hazard is expected under normal industrial use. Seek immediate medical attention. Do not induce vomiting.
Skin	Remove contaminated clothing. Immediately wash with soap and water and rinse thoroughly. Seek medical attention if required.

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

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

### 5: Firefighting measures

#### 5.1: Extinguishing media

Product is non-flammable. Extinguishing methods depend upon hazards in vicinity. Use water or dry extinguishing powders, sand, CO<sub>2</sub> or other inert material as extinguishing media. Do not use water if any water-reactive metal powders are nearby.

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

Burning may produce smoke, carbon monoxide and carbon dioxide.

#### 5.3: Advice for firefighters

Use a self-contained breathing apparatus and full protection gear. Dike and collect water used to fight fire if possible.

### 6: Accidental release measures

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

Avoid contact with skin and eyes, and formation and accumulation of dust. Use personal protective equipment as specified in Section 8 of this SDS. Sweep or gather up material and place in proper container for disposal or recovery.

#### 6.2: Environmental precautions

Avoid release into the environment.

### 6.3: Methods and material for containment and cleaning up

**Containment:** If material is spilled or released, cordon off area. Persons not wearing appropriate protective equipment should be excluded from spill area until clean-up has been completed.

**Clean-Up:** Wear appropriate personal protective equipment as specified in Section 8. Collect spilled material and clean up any residue material by vacuuming or wet sweeping to reduce dust generation and place into an appropriate container suitable for proper disposal in accordance with local, regional, national, and/or international regulations.

### 6.4: Reference to other sections

See sections 8 – Exposure Controls/Personal Protection and Section 13 – Disposal Considerations

## 7: Handling and storage

### 7.1: Precautions for safe handling

Wear appropriate protective gloves and safety glasses with side shields or chemical goggles. Avoid contacting or breathing of material. Use only in well-ventilated area and be sure to wash hands thoroughly after handling material.

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

Store in a tightly closed container in a secure and well-ventilated area. Store under dry and cool conditions and away from incompatible materials (acids and oxidizing agents) and direct sunlight.

### 7.3: Specific end use(s)

**Industrial abrasive**

## 8: Exposure Controls / Personal Protection

### 8.1 : Control parameters

Component Name	OSHA PEL	ACGIH TLV
Mineral Oil	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Distillates (Petroleum), Hydrotreated Heavy	None Established	200 mg/m <sup>3</sup> (as Total Hydrocarbons)
Diamond	5 mg/m <sup>3</sup> *; 15 mg/m <sup>3</sup> **	3 mg/m <sup>3</sup> *; 10 mg/m <sup>3</sup> **

\* Respirable fraction; \*\* Total Particulate (Nuisance Dust)

### 8.2: Exposure controls

#### Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls (wet grinding) to maintain airborne levels below identified exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures:

#### Pictograms



#### Eye/face protection

Safety glasses with side shields or safety goggles should be worn when working with this material.

#### Skin protection

Wear appropriate clothing or PPE to prevent repeated or prolonged contact with exposed skin.

#### Respiratory protection

If ventilation is not sufficient to control exposures below the applicable exposure limits, an appropriate NIOSH approved air-purifying respirator equipped with organic vapor cartridges with dust/mist pre-filter is recommended. Select and use in accordance with 29 CFR 1910.134 and good industrial hygiene practice.

#### Hands

Wear protective gloves: nitrile, neoprene, butyl, polyethylene, or PVC. Always consult with your glove manufacturer or supplier for specific recommendations.

#### General Industrial Hygiene Considerations

Handle in accordance with good Industrial Hygiene and Safety practices.

## 9: Physical and chemical properties

### 9.1: Information on basic physical and chemical properties

<b>Appearance</b>	Opaque liquid of varying colors due to diamond size
<b>Odor</b>	Mild odor
<b>pH</b>	Not applicable
<b>Melting point/freezing point</b>	Not applicable
<b>Initial boiling point/boiling range</b>	≥ 212°F
<b>Flash point</b>	>203°F
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	Non-flammable
<b>Upper/lower flammability or explosive limits</b>	Not applicable
<b>Vapor pressure</b>	1mm @1810°C
<b>Vapor density</b>	Not applicable given
<b>Relative density</b>	1 {Ref Std: WATER=1}
<b>Solubility in water</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Auto-ignition temperature</b>	419°F
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available

### 9.2: Other information

No additional physical and chemical parameters noted

## 10: Stability and reactivity

### 10.1: Reactivity

Not reactive under recommended or normal conditions of handling, storage, processing, and use.

### 10.2: Chemical stability

Stable under normal use conditions.

### 10.3: Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4: Conditions to avoid

No data available

### 10.5: Incompatible materials

No data available

### 10.6: Hazardous decomposition products

None with proper storage and handling

## 11: Toxicological information

Toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, and ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1: Information on toxicological effects

<b>Acute oral toxicity</b>	No Data Available
<b>Acute inhalation toxicity</b>	No Data Available
<b>Acute dermal toxicity</b>	No Data Available
<b>Skin corrosion /irritation</b>	Mechanical skin irritation. Signs/symptoms may include abrasion, redness, pain, and itching.

<b>Eye damage/irritation</b>	Mechanical eye irritation. Signs/symptoms may include pain, redness, tearing and corneal abrasion
<b>Respiratory/skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	None of the components of these products is listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA
<b>Reproductive toxicity</b>	No Data Available
<b>STOT single exposure</b>	No Data Available
<b>STOT repeated exposure</b>	No Data Available
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways

**12: Ecological information****12.1: Toxicity**

No data available

**12.2: Persistence and degradability**

No data available on mixture

**12.3: Bioaccumulative potential**

No data available

**12.4: Mobility in soil**

No data available

**12.5: Other adverse effects**

No data available

**13: Disposal considerations****13.1: Waste treatment methods****FACILITY LEVEL ENVIRONMENTAL EMISSIONS/MITIGATION****Waste Management Controls**

Dispose in accordance with local/regional/national/international regulations. Two options are recommended:

1. Re-use
2. Recycling or other recovery

Wastewater should be processed through a sewage treatment plant (STP) either on-site or off-site.

**14: Transport information**

<b>14.1: UN-No. (DOT/IATA/IMDG):</b>	Not Applicable
<b>14.2: UN proper shipping name:</b>	Not Applicable
<b>14.3: Transport hazard class(es):</b>	Not Applicable
<b>14.4: Packing group:</b>	Not Applicable
<b>14.5: Environmental hazard(s):</b>	Not Applicable
<b>14.6: Special precaution(s) for user:</b>	Not Applicable
<b>14.7: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b>	Not Applicable

**15: Regulatory information**

**15.1: Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Occupational Safety and Health Act (OSHA):**

Federal OSHA Hazard Communication Standard 29 CFR 1910.1200

**SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

n/a

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** This product is in compliance with all rules and orders of TSCA.

**15.2: Chemical safety assessment**

Not Applicable

**16: Other information**

**Revision(s):**

SDS Prepared: 06/24/2019  
Replaces SDS Dated: 05/18/2015

This SDS provides information consistent with recommended applications of these products and anticipated activities involving the product. It is the user's responsibility to identify and protect against health and safety hazards presented by modification of this material and products after manufacture. Individuals handling this material should be informed of all relevant hazards and recommended safety precautions, and should have access to the information contained in this SDS.

**End of Safety Data Sheet**