

# SAFETY DATA SHEET

## Oil Soluble Diamond Compound

Prepared on 06/06/19

### 1: Identification of the substance / mixture and of the company / undertaking

#### 1.1: Product identifier

Substance Name	Oil Soluble Diamond Compound
CAS No.	Mixture, See Section 3
Product Description	Oil Soluble – Color varies with diamond micron size

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

Identified Uses	Industrial abrasive/slurry/lapping compound
Uses advised against	None Known

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

Name	Plastic Process Equipment, Inc.
Address	8303 Corporate Park Dr. Macedonia, Ohio 44056
Phone	216-367-7000
Fax	216-367-7022
E-mail	sales@ppe.com

#### 1.4: Emergency telephone numbers

Emergency Phone (Chemtrec)	800-424-9300

### 2: Hazards Identification

#### 2.1: Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200 HCS & EC 1272 / 2008:	Aspiration Hazard 1 – H304 Skin Irritant 2 – H315 Eye Irritant 2B – H320
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#### 2.2: GHS Label elements, including precautionary statements

Hazard pictogram(s):	
Signal word:	Danger

**Hazard Statement(s):****H304** – May be fatal if swallowed and enters airways**H316** – Causes mild skin irritation**H320** – May cause eye irritation**2.2: GHS Label elements, including precautionary statements (continued)****Precautionary statement(s):****P202** – Do not handle until all safety precautions have been read and understood.**P264** – Wash hands thoroughly after handling.**P273** – Avoid release to the environment**P280** – Wear appropriate personal protective equipment when handling product. Including eye 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+P313** – If exposed or concerned: Get medical advice/attention.**P501** – Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.**3: Composition / information on ingredients****3.1: Substances**

Ingredient Name	Identifier	%	Classifications
Petroleum distillates, hydrotreated heavy naphthenic	CAS: 64742-52-5 EC #: 265-52-5	20-30%	H304 - Aspiration hazard
Polypropylene Glycol Monobutyl Ether	CAS: 9003-13-8 EC #: 500-13-8	15-25%	H302 – Acute Tox 4 H315 – Skin Irr. 2 H319 – Eye Irr. 2A
Vegetable Oil	CAS: 68956-68-3 EC #: 273-313-5	15-25%	Not a hazardous substance or mixture
Diamond	CAS: 7782-40-3 EC #: 231-953-2	<20%*	Not a hazardous substance or mixture
Proprietary ingredients (non-hazardous)	NA	<40%*	Not a hazardous substance or mixture

\* 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.

Occupational exposure limits, if available, can be found in **Section 8** of this document.

## 4: First aid measures

### 4.1: Description of first aid measures

<b>Eyes</b>	Immediately flush eyes with plenty of water lifting lower and upper eyelids occasionally, until abrasive material is removed. After initial flushing, remove any contact lenses if worn. Get medical attention if irritation persists.
<b>Inhalation</b>	If symptoms are experienced remove victim from source of contamination or move victim to fresh air and obtain medical advice.
<b>Ingestion</b>	No ingestion hazard is expected under normal industrial use. If a large quantity is ingested, seek immediate medical attention. Do not induce vomiting.
<b>Skin</b>	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

Signs and symptoms of exposure to this material through ingestion, breathing, eye contact and/or skin contact may include irritation.

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

None Known

## 5: Firefighting measures

### 5.1: Extinguishing media

Product is non-flammable. Suitable Extinguishing Media: Water, foam, sand, powder, carbon dioxide (CO<sub>2</sub>). Use water spray to cool surfaces exposed to fire to disperse vapors and to protect personnel attempting to stop any leakage.

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

Burning may produce smoke, carbon monoxide, carbon dioxide, and unburned hydrocarbons.

### 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. Minimize 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

None Known

### 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. Avoid direct skin contact 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, well-ventilated area. Store under dry and cool conditions, away from sources of ignition and away from incompatible materials (acids and oxidizing agents) and direct sunlight.

### 7.3: Specific end use(s)

Industrial abrasive, abrasive slurry and/or lapping compound

## 8: Exposure Controls / Personal Protection

### 8.1: Control parameters

Component Name	OSHA PEL	ACGIH TLV
Naphtha (Petroleum), Hydrotreated heavy	5 mg/m <sup>3</sup> (Oil Mist)	5 mg/m <sup>3***</sup>
Polypropylene Glycol Monobutyl Ether	N/A	N/A
Vegetable Oil	N/A	N/A
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)

\*\*\* Inhalable Fraction

### DNELs

No DNEL information is available for the Oil Soluble Diamond Compound mixture.

### PNECs

No PNEC information is available for the Oil Soluble Diamond Compound mixture.

### 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.

<b>Personal Protective Equipment:</b>	
<b>Eye / face protection</b>	Safety glasses with side shields or safety goggles should be worn when working with this material.
<b>Skin protection</b>	Wear appropriate clothing or PPE to prevent repeated or prolonged contact with exposed skin.
<b>Respiratory protection</b>	If ventilation is not sufficient to control dust exposures below the applicable exposure limits, an appropriate NIOSH approved air-purifying respirator equipped with N100 or P100 filter is recommended.
<b>Hands</b>	Wear impervious gloves such as nitrile, butyl, neoprene, or PVC. Consult with your glove manufacturer or supplier for specific recommendations.
<b>General Industrial Hygiene Considerations</b>	Handle in accordance with good Industrial Hygiene and Safety practices.
<b>Environmental exposure controls</b>	<b>FACILITY LEVEL ENVIRONMENTAL EMISSIONS/MITIGATION'</b> No environmental exposure expected under normal use

## 9: Physical and chemical properties

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

<b>Appearance</b>	Opaque liquid of varying colors depending on diamond size
<b>Odor</b>	Mild odor
<b>pH</b>	Not applicable
<b>Melting point</b>	Not applicable
<b>Initial boiling point / boiling range</b>	≥ 212°F
<b>Flash point</b>	>242°F
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	Non-flammable
<b>Upper / lower flammability or explosive limits</b>	No Data Available
<b>Vapor pressure</b>	No Data Available
<b>Vapor density</b>	No Data Available
<b>Relative density</b>	specific gravity 1 (water = 1)
<b>Solubility in water</b>	Insoluble
<b>Partition coefficient (n-octanol / water)</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	Not applicable

**Oxidizing properties**

Not applicable

**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**

Incompatible materials

**10.5: Incompatible materials**

Strong acids and oxidizers

**10.6: Hazardous decomposition products**

None with proper storage and handling

**11: Toxicological information**

No data for the Oil Soluble Diamond Compound Mixture exists. Components with data available are listed in the table below.

Endpoint	Petroleum distillates, hydrotreated heavy naphthenic	Polypropylene Glycol Monobutyl Ether	Vegetable Oil
<b>Acute oral toxicity</b>	LD50 – Rat – 2.81 mg/L	LD50, Rat, > 2,291 mg/kg	LD50 – Rat - >20,000 mg/kg
<b>Acute inhalation toxicity</b>	May be fatal if swallowed and enters airways (aspiration hazard)	No Data Available	No Data Available
<b>Acute dermal toxicity</b>	LD50 – Rat – 2,300 mg/kg (est)	LD50, Rabbit, > 8,000 mg/kg	No Data Available
<b>Skin corrosion / irritation</b>	No Data Available	No Data Available	No Data Available
<b>Eye damage / irritation</b>	No Data Available	No Data Available	No Data Available

<b>Respiratory / skin sensitization</b>	No Data Available	No Data Available	No Data Available
<b>Germ cell mutagenicity</b>	No Data Available	No Data Available	No Data Available
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways	May be harmful if swallowed and enters airways	No Data Available
<b>STOT – Single</b>	No Data Available	No Data Available	No Data Available
<b>STOT - Repeated</b>	No Data Available	No Data Available	No Data Available
<b>Reproductive/ Developmental</b>	No Data Available	No Data Available	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.

**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.

#### **11.1: Information on toxicological effects (continued)**

##### **Symptoms related to the physical, chemical and toxicological characteristics**

Skin or eye irritation. Signs/symptoms may include abrasion, redness, pain, and itching.

##### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Immediate effects from short term exposure: None known

Delayed effects from chronic exposure: None known

##### **Interactive effects**

None known

## **12: Ecological information**

This material is not expected to be harmful to the ecology during normal use conditions. Listed components with data available are included in the table below.

#### **12.1: Toxicity**

Endpoint	Petroleum distillates, hydrotreated heavy naphthenic	Polypropylene Glycol Monobutyl Ether
Toxicity to Fish	LC50 – Fathead Minnow - >30,000 mg/L	LC50, Pimephales promelas (fathead minnow), static test, 96 Hour, 190 mg/l
Toxicity to Invertebrates	No Data Available	EC50, Daphnia magna (Water flea), static test, 48 Hour, 450 mg/l
Toxicity to Algae and Plants	No Data Available	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**

No data available

**12.6: 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 appropriate water treatment system or handled per local rules and regulations.

**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****US Federal Regulations**

- **OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.
- **SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **SARA (311/312) REPORTABLE GHS HAZARD CLASSES:**
  - Aspiration Hazard – Category 1
  - Eye Irritation – Category 2B
  - Skin Irritation – Category 2



- **SARA 313 Components:** This material does not contain any known chemical components that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
- **TSCA Status:** this product is in compliance with all rules and orders of TSCA

#### US State Regulations

- **Massachusetts Right to Know Components:** None listed
- **Pennsylvania Right to Know Components:** None listed.
- **New Jersey Right to Know Components:** None listed
- **California Prop. 65 Components:** None listed.

#### 15.2: Chemical safety assessment

Not Applicable

### 16: Other information

#### History:

Date of issue / Date of revision: 06/06/2019

Date of previous issue: 05/15/2015

Version: 1.1

#### Text of Hazard Statement in Section 3:

H302 – Harmful if swallowed

H304 – May be fatal if swallowed and enters airways

H315 – Causes skin irritation

H319 – Causes serious eye irritation

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**