# PRECISION SURFACES INTERNATIONAL, INC.

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# SAFETY DATA SHEET

# **SECTION 1: IDENTIFICATION**

Product Name: Permanent Diamond Suspension
Product Identifier: PSI-5xxMC-size PSI-5xxMC-PS

PSI-5xxPC-size PSI-5xxPC-PS xx= micron size

**Supplier:** Precision Surfaces International, Inc.

922 Ashland, Houston, TX 77008-6734

**Emergency Telephone:** Infotrac 800-535-5053

**Recommended Use:** Abrasive Lapping Slurry **Restrictions on use:** This material should not be used

for any other purpose than the identified uses without expert advice. Improper use may cause potential health, safety, and environmental risks.

## **SECTION 2: Hazard(s) Identification**

#### **UN GHS**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## Classification of the substance or mixture

Specific/Target Organ Toxicity Repeated Exposure 2

# **Label Elements**

# **Pictograms**

Warning



## **Hazard Statements**

May cause damage to organs through prolonged or repeated exposure via Ingestion/Oral.

## **Precautionary Statements**

# Prevention

Do not breathe dust, fume, gas, mist, vapours, and/or spray. Wear protective gloves, protective clothing, eye protection, and/or face protection.

# Response

Get medical advice/attention if you feel unwell.

# Storage/Disposal

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

## **Other Hazards**

According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous.

# **SECTION 3: Composition/Information on Ingredients**

### Substances

Material does not meet the criteria of a substance.

### **Mixtures**

Composition				
Ingredient	Identifiers	% by Weight	Classifications According	
			to Regulation/Directive	
Water	CAS: 7732-18-5	90 – 99	UN GHS:	
	EC Number: 231-791-2			
Ethylene glycol	CAS: 107-21-1	1-10	UN GHS: Acute Tox. Oral	
	EC Number: 203-473-3		4: STOT RE 2	
	EU Index: 603-027-00-1			
Diamond	CAS: 7782-40-3	0.1 – 5	UN GHS:	
	EC Number: 231-953-2			

This product does not contain any additional significantly hazardous material according to UN GHS. The composition of this product is proprietary.

### Key to abbreviations

GHS = Globally Harmonized System of Classification and Labelling of Chemicals UN = United Nations

### **SECTION 4: First-aid Measures**

## Description of first aid measures

# **Inhalation**

IF INHALED: 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.

### **Skin Contact**

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

## **Eye Contact**

IF IN EYES: 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.

# 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 required

# **Notes to Physician**

Treat symptomatically.

# **SECTION 5: Fire-fighting Measures**

# Suitable extinguishing media

LARGE FIRES: Water spray, fog or regular foam.

SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

# **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.

LARGE FIRES: Move containers from fire area if you can do it without risk. Stay upwind.

## Special hazards arising from the substance or mixture

# **Unusual Fire and Explosion Hazards**

Some of these materials may burn, but none ignite readily.

# **Hazardous Composition Products**

Oxides of carbon.

## Advice for firefighters

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

# **SECTION 6: Accidental Release Measures**

# Personal precautions, protective equipment and emergency procedures

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

# Methods and material for containment and cleaning up

# Containment/Clean-up Measures

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.

## Reference to other sections

Refer to Section 8 – Exposure Controls/Personal Protection and Section 13 – Disposal Considerations.

# **SECTION 7: Handling and Storage**

### Precautions for safe handling

## Handling

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, vapours, and/or spray. Use appropriate Personal Protective Equipment.

# Conditions for safe storage including any incompatibilities

### Storage

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

# **SECTION 8: Exposure Controls/Personal Protection**

### **Control Parameters**

Exposure Limits/Guidelines			
Ingredient C.A.S. No. Result ACGIH			
Ethylene glycol	107-21-1	Ceilings	100 mg/m <sup>3</sup> Ceiling (aerosol only)

## **Exposure Controls**

## **Engineering Measures/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 to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Personal Protective Equipment (PPE)

### **Respiratory Protection**

In case of insufficient ventilations, wear suitable respiratory equipment. Respiratory protection required in misting environments. Respiratory protection required when this material is heated.

### **Eye/Face Protection**

Wear chemical splash safety goggles.

#### **Hand Protection**

Wear protective gloves – single use PVC, latex, or nitrile gloves.

# **Skin/Body Protection**

Wear long sleeves and/or protective coveralls.

# **General Industrial Hygiene**

Avoid contact with skin, eyes, or clothing. Handle in accordance with good industrial hygiene and safety practice.

## **Environmental Exposure Controls**

Prevent entry into waterways, sewers, basements, or confined areas.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

# **SECTION 9: Physical and Chemical Properties**

Physical State: Liquid
Color: Clear amber
Odor: No data available
Odor Threshold: No data available

**pH:** 9 to 10

Melting Point/Freezing Point:< -10°C (< 14°F)</td>Boiling Point:> 130°C (> 266°F)Evaporation Rate:No data availableFlash Point:No data availableFlammability (solid, gas):No data availableFlammable Limits (LEL):No data availableFlammable Limits (UEL):No data available

Vapor Pressure: No data available; Negligible

Vapor Density: No data available Specific Gravity/Relative Density: 1.05 to 1.2 Water=1

Water Solubility: Soluble Solvent Solubility: Insoluble

Viscosity

Autoignition Temperature:

Decomposition Temperature:

Octanol/Water Partition coefficient:

No data available

No data available

# **SECTION 10: Stability and Reactivity**

### Reactivity

No dangerous reaction known under conditions of normal use.

# **Chemical Stability**

Stable under normal temperatures and pressures.

### Conditions to avoid

Keep at temperatures above freezing. Allowing freezing conditions may degrade product.

## Possibility of hazardous reactions

Hazardous polymerization will not occur.

# Incompatibility

No data available.

## **Hazardous Decomposition Products**

Hazardous decomposition may occur during combustion, generating oxides of carbon.

## **SECTION 11: Toxicological Information**

## Information on toxicological effects

GHS Properties	Classification
Respiratory sensitization	UN GHS – Classification criteria not met
Serious eye damage/irritation	UN GHS – Classification criteria not met
Acute toxicity	UN GHS – Acute Toxicity – Classification criteria not met;
	Acute Toxicity – Dermal – Classification criteria not met;
	Acute toxicity – Inhalation – Classification criteria not met;
	Acute Toxicity – Oral – Classification criteria not met
Aspiration Hazard	UN GHS – Classification criteria not met
Carcinogenicity	UN GHS – Classification criteria not met
Germ Cell Mutagenicity	UN GHS – Classification criteria not met
Skin corrosion/Irritation	UN GHS – Classification criteria not met
Skin sensitization	UN GHS – Classification criteria not met
STOT-RE	UN GHS – Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	UN GHS – Classification criteria not met
Toxicity for Reproduction	UN GHS – Classification criteria not met

## **Potential Health Effects**

# **Inhalation**

Acute (Immediate) – Under normal conditions of use, no health effects are expected.

Chronic (Delayed) - Under normal conditions of use, no health effects are expected.

# Skin

Acute (Immediate) – Under normal conditions of use, no health effects are expected. Chronic (Delayed) - Under normal conditions of use, no health effects are expected.

# Eye

Acute (Immediate) – Under normal conditions of use, no health effects are expected. Chronic (Delayed) - Under normal conditions of use, no health effects are expected.

### Ingestion

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.

# **Carcinogenic Effects**

No component of this material in amounts greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, NTP, or OSHA.

### **Keys to abbreviations**

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

OSHA = Occupational Safety and Health Administration

IARC = International Agency for Research on Cancer

**UN = United Nations** 

NTP = National Toxicology Program

# **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.

# Persistence and degradability

This material is readily biodegradable.

# **Bioaccumulative potential**

No indication of bio-accumulation potential.

## Mobility in soil

No data available.

#### Results of PBT and vPvB assessment

The components of this material do not meet the criteria for classification as PBT or vPvB.

# Other adverse effects

## **Ecological fate**

No data available.

# **SECTION 13: Disposal Considerations**

## Waste treatment methods

## **Product waste**

Dispose of contents/container in accordance with the local, regional, national, and international regulations.

# Packaging waste

Dispose of contents/container in accordance with the local, regional, national, and international regulations.

# **SECTION 14: Transport Information**

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

# Special precautions for user

None known.

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This product is provided only in non-bulk containers.

## Other information

This material is not a regulated hazardous material with respect to the following transportation regulations: United States Department of Transportation (US DOT), International Air Transport Association (IATA), or International Maritime Dangerous Goods (IMDG).

# **SECTION 15: Regulatory Information**

# Safety, health and environmental regulations/legislation specific for the substance or mixture

Inventory				
Component C.A.S. No Japan ENCS TSCA				
Diamond	7782-40-3	No	Yes	
Ethylene glycol	107-21-1	Yes	Yes	
Water	7732-18-5	No	Yes	

## Labor

## Japan – ISHL Dangerous Substances

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

# Japan – ISHL Designated Carcinogens

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

# Japan – ISHL Harmful Substances Prohibited for Manufacture

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

# Japan – ISHL Harmful Substances Requiring Workers to Subject to Medical Exams

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

# Japan – ISHL Harmful Substances Subject to Obtaining Permission for Manufacturing

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

### Japan – ISHL Harmful Substances Whose Names Are to be Indicated on the Label

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	>=1% weight

# Japan - ISHL Prevention of Lead

# Poisoning

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

Ethylono glygol	107 21 1	Not listed	
Ethylene glycol	107-21-1	Not listed	
Japan – ISHL Mutagens – Existing			
Chemicals			
Water	7732-18-5	Not Listed	
Diamond	7782-40-3	Not Listed	
Ethylene glycol	107-21-1	Not listed	
Japan – ISHL Mutagens – New			
Chemicals			
Water	7732-18-5	Not Listed	
Diamond	7782-40-3	Not Listed	
Ethylene glycol	107-21-1	Not listed	
Japan – ISHL Notifiable Substances			
Water	7732-18-5	Not Listed	
Diamond	7782-40-3	Not Listed	
Ethylene glycol	107-21-1	>=1% weight [Ordinance Table 2]	
Japan – ISHL Prevention of Organic			
Solvent Poisoning			
Water	7732-18-5	Not Listed	
Diamond	7782-40-3	Not Listed	
Ethylene glycol	107-21-1	Not listed	
. ,			
Environment			
Japan – Pollutant Release Transfer Reg	ister (PRTR) – Class 1 Substance	es	
Water	7732-18-5	Not Listed	
Diamond	7782-40-3	Not Listed	
Ethylene glycol	107-21-1	Not listed	
Japan – Pollutant Release Transfer Reg			
	7732-18-5	Not Listed	
Diamond	7782-40-3	Not Listed	
Ethylene glycol	107-21-1	Not listed	
Inventory – Japan – Industrial Safety a	nd Health Law Substances (ISHI	L)	
Water	7732-18-5	Not Listed	
Diamond	7782-40-3	Not Listed	
Ethylene glycol	107-21-1	Not listed	
Other			
Japan – Chemical Substance Control La	w (CSCL) – Examined Existing C	hemical Substances	
Water	7732-18-5	Not Listed	
Diamond	7782-40-3	Not Listed	
Ethylene glycol	107-21-1	Readily biodegradable	
Japan – Fire Service Law – Hazardous			
Materials			
Water	7732-18-5	Not Listed	
Diamond	7782-40-3	Not Listed	

# Japan - Chemical Substance Control Law (CSCL) - Monitoring Chemical Substances

107-21-1

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

## Japan - Poisonous and Deleterious

### Substances

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

# Japan – Chemical Substance Control Law (CSCL) – Specified Chemical Substances

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

# Japan - Poisonous and Deleterious Substances - Substances Not Considered Deleterious

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

## Japan – Poisonous and Deleterious Substances – Substances Not Considered Poisonous

Water	7732-18-5	Not Listed
Diamond	7782-40-3	Not Listed
Ethylene glycol	107-21-1	Not listed

## **SECTION 16: Other Information**

## Relevant Phrases (code & full text)

H303 - May be harmful if swallowed

H373 – May cause damage to organs through prolonged or repeated exposure.

P260 – Do not breathe dust, fume, gas, mist, vapours and/or spray.

P280 – Wear protective gloves, protective clothing, eye protection, and face protection.

P314 – Get medical advice/attention if you feel unwell.

P401 – Store in accordance with local, regional, national, and/or international regulations.

P501 – Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

The above information and recommendation are believed to be accurate and reliable. However, no warranty, either expressed or implied, is made as to its accuracy or completeness and none is made as to fitness of this material for any purpose. The manufacturer or supplier shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.

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