

PRECISION SURFACES INTERNATIONAL, INC.

922 Ashland Houston, TX 77008-6734

713-426-2220 Fax: 713-426-2223

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: Permanent Diamond Suspension, Oil Base
Product Identifier: PSI-5xxMC-sizeOB
PSI-5xxPC-sizeOB xx=micron size
Supplier: Precision Surfaces International, Inc.
922 Ashland, Houston, TX 77008-6734
Emergency Telephone: Infotrac 800-535-5053
Recommended Use: Lapping Slurry

SECTION 2: Hazard(s) Identification

UN GHS

According to the Third Revised Edition

Classification of the substance or mixture

Flammable Liquids 4 - H227

Aspiration 1 - H304

Skin Irritation 2 - H315

Eye Irritation 2 - H319

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

Hazardous to the aquatic environment Acute 3 - H402

Hazardous to the aquatic environment Chronic 3 - H412

Label Elements

DANGER

Pictograms



Hazard Statements

H227 - Combustible liquid

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

Prevention

P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

P261 - Avoid breathing dust, fume, gas, mist, vapours and/or spray.

P264 - Wash thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P281 - Use personal protective equipment as required.

Response

P370+P378 - In case of fire: Use appropriate media for extinction.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 - Do NOT induce vomiting.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

Storage/Disposal

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P411 - Store at temperatures not exceeding the specified temperature 104F/40C.

P501 - 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			
Chemical Name	Identifiers	%	Classifications According to Regulation/Directive
Odorless Mineral Spirits	C.A.S.: 64742-47-8 EC Number: 947-241-2 REACH: 01-2119463258-33 EU Index: 649-422-00-2	55 – 85	UN GHS: Asp. Tox. 1; Flam. Liq. 3; STOT SE 3: Narc.
Diamond	C.A.S.: 7782-40-3 REACH: 17-2119902555-41-0000 EINECS: 231-953-2	<= 2	UN GHS:
Ethoxylated amine	C.A.S: 61791-26-2 EC Number: 500-153-8	< 1.5	UN GHS: Aquatic Acute 1; Acute Tox. Oral 4; Aquatic Chronic 1; Eye Dam. 1; Skin Corr. 1C

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

Key to abbreviations

UN = United Nations

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

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. Give artificial respiration if victim is not breathing. Get medical attention immediately if symptoms occur.

Skin

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

Eye

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

Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

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 alcohol-resistant foam.

SMALL FIRES: Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media

High pressure water stream. Direct water stream may spread fire.

Firefighting Procedures

As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. LARGE FIRES: Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

May be ignited by heat, sparks or flames. Containers may explode when heated. Vapor explosion hazard indoors, outdoors or in sewers. Many liquids are lighter than water. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may form explosive mixtures with air.

Hazardous combustion products

Combustion products may include and are not limited to: Nitrogen oxides, carbon monoxide and carbon dioxide. Unidentified organic compounds may be formed in fumes and smoke during combustion.

Advice for firefighters

Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

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. Use appropriate Personal Protective Equipment (PPE).

Emergency procedures

As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Environmental precautions

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

Methods and materials for containment and clean up

Containment/clean-up measures

Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Reference to other sections

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

Other Information

Caution: spill area may become slippery.

SECTION 7: Handling and Storage

Precautions for safe handling

Handling

Do not breathe (dust, vapor or spray mist) Use only with adequate ventilation. Avoid contact with heat and ignition sources. All equipment used when handling the product must be grounded. Take precautionary measures against static charges. Wear appropriate personal protective equipment, avoid direct contact. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage including any incompatibilities

Storage

Keep container tightly closed. Keep from direct sunlight. Store in a cool/low temperature, well-ventilated place. Storage temperature should not exceed 40°C.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

Exposure Limits/Guidelines

None established

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. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment (PPE)

Eye/Face Protection

Wear safety goggles.

Hand Protection

Wear appropriate gloves.

Skin/Body Protection

Wear protective gloves/protective clothing/eye protection/face protection.

Respiratory Protection

Under normal conditions, respiratory protection is not necessary. Respiratory protection required in misting environments.

General Industrial Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

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

SECTION 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Yellow
Odor:	Mild hydrocarbon odor
Odor Threshold:	No Data Available
pH:	No Data Available
Melting Point:	No Data Available

Boiling Point:	> 200°C (392°F)
Evaporation Rate:	< 0.1 n-Butyl Acetate = 1
Flash Point:	65°C (149°F) PMCC (Pensky-Martins Closed Cup)
Flammability (solid, gas):	Not Relevant
Flammable Limits (LEL):	1.3 % estimated
Flammable Limits (UEL):	8% estimated
Vapor Pressure:	No Data Available
Vapor Density:	No Data Available
Specific Gravity/Relative Density:	0.8 to 0.84 Water =1 @ 20°C (68°F)
Water Solubility:	Negligible
Autoignition Temperature:	No Data Available
Decomposition Temperature:	No Data Available
Viscosity:	41 Centipoise (cPs, cP) or mPas @ 37°C (98.6°F)
Volatiles (Vol.)	> 90%
Octanol/Water Partition Coefficient:	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 away from heat, sparks, and flame. Incompatible materials.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Incompatibility

Incompatible Materials: Acids, Oxidizers, Oxidizers (strong)

Hazardous Decomposition Products

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

SECTION 11: Toxicological Information

Information on toxicological effects

GHS Properties

Acute toxicity

Classification

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 – Aspiration 1

Carcinogenicity

UN GHS – Classification criteria not met

Germ Cell Mutagenicity

UN GHS – Classification criteria not met

Skin corrosion/Irritation

UN GHS – Skin Irritation 2

Skin sensitization

UN GHS – Classification criteria not met

STOT-RE

UN GHS – Classification criteria not met

STOT-SE

UN GHS – Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

Toxicity for Reproduction	UN GHS – Classification criteria not met
Respiratory sensitization	UN GHS – Classification criteria not met
Serious eye damage/Irritation	UN GHS – Eye Irritation 2

Potential Health Effects

Inhalation

Acute (Immediate) – May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma, and death.

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

Skin Contact

Acute (Immediate) – Causes skin irritation.

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

Eye Contact

Acute (Immediate) – Causes serious eye irritation.

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

Ingestion

Acute (Immediate) – Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

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

Carcinogenicity

This material does contain a component that may cause cancer, however based on regulatory criteria this material is not classified as a carcinogen.

SECTION 12: Ecological Information

Toxicity

This product is expected to have toxic effects on aquatic life. Take necessary precautions to prevent release of this material into sewers, streams or bodies of water.

Persistence and degradability

Based on component information, this material is expected to be readily biodegradable.

Bioaccumulative potential

No data available.

Mobility in Soil

Based on component information, this material is expected to partition rapidly to air. Not expected to partition to sediment and wastewater solid

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

No studies have been found.

Other Information

No data available.

SECTION 13: Disposal Considerations

Waste treatment methods

Product waste

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

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or 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 specified.

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).

Key to abbreviations

NDA = No Data Available

SECTION 15: Regulatory Information

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

Inventory		
Component	CAS	TSCA
Diamond	7782-40-3	Yes
Ethoxylated amine	61791-26-2	Yes
Odorless Mineral Spirits	64742-47-8	Yes

China

Other

China – Dangerous Goods List

Ethoxylated amine	61791-26-2	Not Listed
Odorless Mineral Spirits	64742-47-8	Not Listed
• Diamond	7782-40-3	Not Listed

SECTION 16: Other Information

Relevant Phrases (code & full text)

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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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