Material Safety Data Sheet

Section 1. Identification of the chemical and supplier

Product Name: Monocrystalline Diamond Suspension **Synonyms:** Diamond polishing fluid
commodity code: Super-PW
(M)SDS Number: 3103EN
Relevant identified use(s): Laboratory metallographic analysis
Emergency telephone number: 13814829868（24h）
Name of the company: Trojan (Suzhou) Material Technology Co., Ltd
Address of the company: Building 26, No. 228 Gongtang Road Luzhi Town,Wuzhong District, Suzhou, China.
Post code: 215000 Fax number: 0512-67508229
Telephone number: 0512-67580617
E-mail address: sales@trojanchina.com

Section 2. Hazards identification

Hazard classification according to GHS:

Acute toxicity/ Oral	Category 4	(H302)

Hazard pictograms**:**



Signal word: Warning
Hazard statement(s):
H302 Harmful if swallowed
Precautionary statement(s)
Prevention
P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
Response
P301+P317 IF SWALLOWED: Get medical help.
P330 Rinse mouth.
Storage
-none
Disposal
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

applicable laws and regulations, and product characteristics at time of disposal.

2.3Other hazards which do not result in classification

no data available.

Section 3. Composition/information on ingredients

Name： Polycrystalline Diamond Suspension

CAS NO： 57-55-6，7782-40-3

Material composition（%）：

Chemical name	Weight-%	CAS-No.	EC No.
Propylene Glycol	10-50	57-55-6	200-338-0
Diamond	<3	7782-40-3	231-953-2
Water	16-50	7732-18-5	231-791-2

Mixture：

Chemical properties： Flammable gray-black emulsion (after precipitation, the supernatant is colorless)

Name	Concentration or Concentration Range (%)	Hazardous substance classification and schema
Diamond	<3%	
Propylene Glycol	Low toxicity	Central nervous depressant

Section 4. First-aid measures

General advice: Immediate medical attention is required. Show this material safety data sheet (MSDS) to the doctor in attendance .

Description of necessary first-aid measures

If inhaled

Remove to fresh air.

Following skin contact

Wash skin with soap and water. In case of skin irritation or allergic reaction, seek medical attention.

Following eye contact

Rinse with plenty of water for at least 15 minutes and lift upper and lower eyelids. Consult your doctor.

Following ingestion

Rinse your mouth with water and drink plenty of it.

Most important symptoms/effects, acute and delayed

No information available.

Advice for protecting the rescuer

Wear gloves and masks for protection.

Special note to the doctor

Suit the remedy to the case.

Section 5. Firefighting measures

Suitable extinguishing media: Use fire extinguishing measures appropriate to local conditions and the surrounding environment.
Specific hazards arising from the substance or mixture Thermal decomposition results in the release of irritating and toxic gases and vapors.
Special fire extinguishing procedure: N.A.
Special protective actions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full fire fighting clothing and use personal protective equipment.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation.
Environmental precautions: Not to be discharged into the environment; Wear protective gear when cleaning raw materials. Adopt inert raw materials for adsorption. Clean or shovel raw materials into sealed waste containers. Disposal as required by federal, state or local authorities.
Methods and materials for containment and cleaning up **Methods for containment**: To prevent further leakage or spillage as far as is safe and practicable. **Methods for cleaning up**: Mechanically picked up and placed in an appropriate container for disposal.

Section 7. Handling and storage

Precautions for handling **Safe operation instruction:** Ensure adequate ventilation. **General health precautions:** Operate in accordance with good industrial hygiene and safety practices.
Precautions for storage: Keep container tightly closed and in a dry and well ventilated place.
Operation cautions: Rinse thoroughly after operation. Avoid contact with skin and eyes. Suitable for industrial applications only.

Section 8. Exposure controls/personal protection

Engineering control: Maintain adequate ventilation. Do not smoke or eat or drink in the workplace. Wash hands thoroughly after handling. Maintain good housekeeping.
Control parameters - 8 hours daily average admissible concentration/short time average admissible concentration/maximum admissible concentration：N.A. - biological indicator：N.A.
Personal protection equipment - Respiratory protection: no special treatment is required under normal ventilation conditions. If exposure is unknown, or exceeds TLV/PEL, or adverse consequences have occurred, use an NIOSH approved vacuum mask in accordance with the actual health and safety regulations and manufacturing instructions. - Hand protection: Acrylic rubber impermeable gloves, polyethylene alcohol, oxidized elastomer. - Eye protection: wear safety goggles. Chemical protective goggles. - Skin and body protection: wear clean work clothes. Wear butyl rubber gloves, PVA gloves or PVA

gloves. Environmental contact control: no information available
Hygiene measures: Observe correct safety rules in use. Do not smoke or eat during use. Container bottles should comply with all MSDS/ LABEL instructions after use of materials. Remove contaminated clothes as soon as possible after work. Wash them before wearing them or discarding them. Inform the laundry staff of the hazards of contaminants.

Section 9. Physical and chemical properties

Appearance: Gray suspension or colorless liquid	**Odor**: A liquid having a light, characteristic odor like alcohol
Odor threshold:0	**Melting point:** /
pH: 5-8	**Initial boiling point and boiling range**: 100℃
Flammability: Flammable	**Flashpoint:** 109℃
Decomposition temperature: 260℃	**Test method:** V open glass
Spontaneous ignition temperature: N.A.	**Explosion limit:** 18.6-59.3%
Vapor pressure: 16.21kPa/20℃	**Vapor density :** 1.3
Relative density: 0.901	**Solubility:** Insoluble in water

Section 10. Stability and reactivity

Stability and reactivity	
Stable under normal conditions	
The explosion of data	N.A.
Sensitive to mechanical impact	N.A.
Sensitive to electrostatic discharge	N.A.
Possible hazardous reactions under special circumstances: It doesn't happen during normal processing	
Conditions to avoid: Unknown **Prohibited content:** Unknown	
Hazardous decomposition products: Not under normal service conditions.	

Section 11. Toxicological information

Exposure pathways: Inhalation, skin, eyes, ingestion
Symptom: **Inhalation**: Specific test data for this substance or mixture are not available. **Eye contact:** Specific test data for this substance or mixture are not available. **Skin contact:** Specific test data for this substance or mixture are not available. **Ingestion**: Specific test data for this substance or mixture are not available. **Information on toxicological effects:** **Symptoms**: No information available.
Acute toxicity: LD50:14900 mg/kg(mouse abdominal cavity);113000 mg/kg(rabbit transdermal)

LC50:19689mg/m3, 4 h (rat inhalation)
Chronic or chronic toxicity: Late and immediate effects and chronic effects from short - and long-term exposures: Skin corrosion/irritation: no information available Severe eye injury/eye irritation: no information available Respiratory or skin sensitization: no information available Germ cell mutagenesis: no information available Carcinogenicity: No information available Reproductive Toxicity: No information available STOT - One Touch: No information available STOT - Repeated Contact: No information available Inhalation Hazard: No information available

Section 12. Ecological information

Ecotoxicity: The substance may be hazardous to the environment and special attention should be paid to water bodies.
Persistence and Degradability: Degradable.
Bioaccumulation: No information available.
Mobility in soil: No information available.
Other adverse effects: No information available.

Section 13. Disposal considerations

Waste treatment methods:	
Residues/waste from unused products	Dispose of waste in accordance with local regulations and environmental regulations.
Contaminated Packaging	No information available.

Section 14. Transport information

Special Name for Transport: Container bottles are not specified for <110 Gal.

International Transport Regulations:
UN Name: /
Transport hazard class : /
Packing group: General solid transport.
Marine pollutant: No special requirements.
Special transportation method and matters needing attention: No special requirements.

Others:

IMDG/IMO	Unregulated
UN number	N, Unregulated
Proper Shipping Name	Unregulated

Hazard Class	Unregulated
Packing Group	Unregulated
Marine Pollutant	N
Environment Hazards	N.A.
Special provisions	N.A.
Bulk transportation basis MARPOL 73/78	N.A.
RID	Unregulated
UN number	Unregulated
Proper Shipping Name	Unregulated
Hazard Class	Unregulated
Packing Group	Unregulated
Environment Hazards	N.A.
Special provisions	N.A.
ADR	Unregulated
UN number	Unregulated
Proper Shipping Name	Unregulated
Hazard Class	Unregulated
Packing Group	Unregulated
Environment Hazards	N.A.
Special provisions	N.A.
IATA	Unregulated
UN number	Unregulated
Proper Shipping Name	Unregulated
Hazard Class	Unregulated
Packing Group	Unregulated
Environment Hazards	N.A.

Section 15. Regulatory information

Applicable regulations: China

Section 16. Others

Reference		
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