Material Safety Data Sheet

Section 1. Identification of the chemical and supplier

Product Name： Water-free Alumina Polishing Suspension **Synonyms：**

Commodity cod：AQ-WF

(M)SDS Number：3108EN

Relevant identified use(s): Polishing of metallographic specimens

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.

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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 statements:

1. **Prevention:**

- Keep away from heat and flammable substances.
- When using the product, do not eat, drink or smoke.
- Wear protective gloves/protective clothing/eye protection/face protection.

2. **Response:**

- In case of fire: use suitable extinguishing equipment to extinguish the fire.
- If swallowed: rinse mouth, prompt vomiting, seek medical advice as soon as possible.
- In case of contact with eyes: Open eyelids while upright and flush contaminated eyes with gentle water.
- In case of skin contact: Rinse with clean water.

3. **Storage:**

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

4. **Disposal:**

- Collect centrally and deal with in accordance with local regulations.

Section 3. Composition/information on ingredients

Name: Anhydrous Alumina Polishing Slurry

CAS NO： 57-55-6, 1344-28-1

Material composition (percentage of ingredients):

Chemical Name	Concentration%	CAS-No.	EC No.
Propylene Glycol	60-90	57-55-6	200-338-0
Aluminum Oxide	10-40	1344-28-1	215-691-6

Mixture：

Mixture Properties： Combustible, gray-white milky suspension

English names of hazardous substances	Concentration or Concentration Range (Percent by Weight)	Hazard Classification and Pictogram
Aluminum Oxide	10-40%	
Propylene glycol	Belongs to low-toxicity category	Central nervous system effects

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 apparent hazard.

Advice for protecting the rescuer

Firefighters should wear self-contained breathing apparatus and full fire fighting clothing. Use personal protective equipment.

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: Do not release into the environment; Wear appropriate protective equipment when cleaning up the material; Use inert materials to absorb the substance; Collect or shovel the material into a sealed waste container; Dispose of in accordance with federal, state, or local regulations.
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.
Precautions for Handling: Wash thoroughly after handling. Avoid contact with skin and eyes. For industrial use only.

Section 8. Exposure controls/personal protection

Occupational Exposure Limits：:

Component Name	CAS	Standard	Limit
Propylene glycol	57-55-6	GBZ 2.1—2019	MAC: PC-TWA: PC-STEL:
Aluminum Oxide	57-55-6	GBZ 2.1—2019	MAC： PC-TWA： PC-STEL：

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: White slurry	**Odor：** Liquid with a light alcohol-like, characteristic odor
Odor threshold： 0	**Melting point：** -21.4℃
pH： 6-9	**Boiling point / Boiling range:** Same as water
Flammability: Combustible	**Flash point：** 109℃
Decomposition temperature: /	**Test method**: V open glass
Autoignition temperature: None	**Explosion limits:** /
Vapor pressure:16.21kPa/20℃	**Vapor density：**（water=1）1.0-1.1
Relative density： 1.08-1.10	**Solubility：** Miscible with 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,eye,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.
Symptoms: No information available.
Acute toxicity: LD50: 14,900 mg/kg (mouse, intraperitoneal); 113,000 mg/kg (rabbit, dermal) LC50: 19,689 mg/m³ , 4 hours (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： This substance may be hazardous to the environment; special attention should be paid to aquatic systems.
Persistence and Degradability： Degradable
Bioaccumulation: No information available.
Mobility in soil： No information available.
Other adverse effects: No information available.
Ecotoxicity: /

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： 2277
UN Name： UN1866
Transport hazard class： /
Packing group： General solid transportation
Marine pollutant： /
Special transportation method and matters needing attention： Resin solution

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.
Special provisions	N.A.

Section 15. Regulatory information

Applicable regulations: China

Section 16. Others

Reference		
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