

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: Hi Purity Alumina Suspension
Product Identifier: PSI-5601S-6 or 128 PSI-5603S-6 or 128 PSI-5605S-6 or 128
Supplier: Precision Surfaces International, Inc.
922 Ashland, Houston, TX 77008-6734
Emergency Telephone: Infotrac 800-535-5053
Recommended Use:

SECTION 2: Hazard(s) Identification

Hazard Classification

Non-Hazardous

IDLH (Immediate Danger to Life and Health)

None

Physical Hazards

Not Classified

Health Hazards

Classification of the Substance or Mixture (Dry Dust / Inhalation)

Eye Irritation – Category 2B

Label Elements

Signal Word

None

Pictograms



Chronic Health Hazards

Hazard Statements

H320: Causes Eye Irritation – Category 2B

H332: May be harmful if inhaled.

Precautionary Statements

P261: Avoid breathing dust, fume, gas, mist, vapors, and/or spray.

Precautionary Response

P305+P351+P338: **IF IN EYES:** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists, get medical advice / attention.

P304+P340+P312: **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor / physician if you feel unwell.

SECTION 3: Composition/Information on Ingredients

The terms “hazardous” and “hazardous materials” as used within this SDS (EU - MSD) should be interpreted as defined by, and accordance with, the OSHA Hazard Communication Standard (29 CFR 1910:1200) and the EU Occupational Exposure Limits (OEL) REGULATION (EC) No 1272/2008 including cited Appendices, Lists, References, etc., all of which are hereby incorporated by reference and stated below as appropriate.

OECD SIDS documents published by UNEP Chemicals in response to its mandate to facilitate the access to information needed for health and environmental risk assessment of chemicals. The documents contain the information gathered and an Initial Assessment performed under the framework of the OECD HPV Chemicals Program.

Ingredient	C.A.S. No.	EC Number	% by Weight
Propylene Glycol	57-55-6	200-338-0	5 – 15
Alumina Powder	1344-28-1	215-691-6	5 – 15
Proprietary Non-Hazardous Ingredients	N/A	N/A	70 – 90

Hazardous Mixtures

None (See Section 8 for Occupational Exposure Limits)

SECTION 4: First-aid Measures

First Aid Measures General

If medical advice is needed, have product container or label at hand.

Inhalation

If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact

Rinse immediately with plenty of water. Gently wash with plenty of soap and water. Obtain medical attention if irritation persists.

Eye Contact

Immediately rinse with water for a prolonged period while holding the eyelids wide open. Seek medical attention if material is embedded in eye. If eye irritation persists: Get medical advice and attention.

Ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Drink 1 or 2 glasses of water. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

Symptoms/Injuries

Repeated or prolonged inhalation may damage lungs.

Inhalation

May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Skin Contact

Prolonged contact with large amounts of dust may cause mechanical irritation. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Eye Contact

Redness, pain.

Ingestion

Abdominal pain.

Chronic Symptoms

Respiratory difficulties.

SECTION 5: Fire-fighting Measures
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Fire Hazard

Will not burn.

Suitable Extinguishing Media

Use ABC type fire extinguisher for surrounding fire.

Special Firefighting Procedures

None

Unusual Fire and Explosion Hazards

None

Reactivity

Keep away from strong oxidizing agents and from heat and ignition sources.

Protective Equipment for Firefighting

Self-Contained Breathing Apparatus and clothing for chemical fires.

Protection during Firefighting

Use normal individual fire protective equipment.

SECTION 6: Accidental Release Measures

Protective equipment and emergency procedures

Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Keep upwind. Keep out of low lying areas. Ventilate closed spaces before entering.

Environmental Precautions

Prevent further leakage or spillage and comply with local, state and federal regulations.

Methods and materials for containment and clean up

If product has dried, avoid generation of dust during clean-up of spills. Recover the dried product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Liquid product can be wiped or mopped up and disposed of accordingly.

SECTION 7: Handling and Storage

Precautions for safe handling

Do not breathe dust. Avoid generation of dust during clean-up of spills. Recover the product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Wear suitable protective clothing, gloves and eye/face protection. If airborne dust is generated, use the appropriate NIOSH approved respiratory protection.

Conditions for safe storage including any incompatibilities

Store in original tightly closed container. Keep away from food, drink and animal feeding stuffs. Use care in handling / storage. Store in accordance with local, regional, national, and international regulation. Keep out of reach of children. Always use oldest stock first.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

Use in accordance with safest practices.

Exposure Guidelines

Ingredient	C.A.S. No.	ACGIH TLV	OSHA PEL
Aluminum Oxide	1344-28-1	10 mg/m ³	15 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction)

TLV: Threshold Limit Value of a chemical substance is a level to which it is believed a worker can be exposed day after day for a working lifetime without adverse health effects.

TWA: (Time Weighted Average - TLV-TWA): average exposure on the basis of an 8h/day, 40h/week work schedule.

STEL: (Short Term Exposure Level) is an employee's 15-minute time weighted average exposure at any time during a work day and cannot be repeated more than 4 times in a day.

Personal Protective Equipment (PPE)

Use chemical goggles or safety glasses and chemical resistant gloves while handling under normal conditions.

Respiratory Protection

Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV. All requirements set forth in 29CFR1910.134 must be met.

Protective Gloves

Nitrile gloves are recommended. Be cautious as the liquid may penetrate the glove. Frequent change is advisable.

Ventilation

Provide adequate general and local exhaust ventilation.

Eye protection

Chemical / splash goggles are recommended. Eye wash station must be present.

Other Equipment

None

SECTION 9: Physical and Chemical Properties

Appearance and Odor:	Liquid, None
Color:	White
Physical State:	Liquid
pH:	Not Available
Viscosity	Not Available
Melting Point:	Not Applicable
Boiling Point:	Not Available
Flash Point:	Not Applicable
Freezing Point:	Not Available
Evaporation Rate (baC=1):	Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Specific Gravity:	Not Available
Solubility in Water:	Completely Soluble
Solubility in Oil:	Not Available
Solubility in Solvents:	Not Available
Percent Volatility:	Not Applicable

SECTION 10: Stability and Reactivity

Reactivity

Hazardous reaction will not occur under normal conditions.

Chemical Stability

This composition is stable under normal conditions.

Conditions to avoid

Extreme Temperatures.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Incompatibility

Strong Oxidizers.

Hazardous Decomposition Products

Carbon and Nitrogen Oxides.

SECTION 11: Toxicological Information

Acute Toxicity

May cause irritation or burns to eyes, skin, and respiratory system.

Skin Corrosion/Irritation

Irritating to skin.

Serious Eye Damage/Irritation

Risk of damage to eyes.

Skin / Respiratory Sensitization

Not Classified

Germ Cell Mutagenicity

Not Classified

Carcinogenicity

Not Classified

Reproductive Toxicity

Not Classified

Target Organ Toxicity (Single Exposure)

May cause respiratory / skin irritation.

Target Organ Toxicity (Repeated Exposure)

May cause respiratory / skin irritation.

Aspiration Hazard

Not Classified

Teratogenicity

Not Classified

SECTION 12: Ecological Information**Ecotoxicity**

This product is not expected to be toxic to the environment. Adopt environmental controls to prevent the product from being released into the environment.

Persistence and Degradability

Not readily biodegradable.

Bioaccumulative Potential

Not expected to bioaccumulate.

Mobility in Soil

No information available.

Other Adverse Effects

No information available.

SECTION 13: Disposal Considerations

You may moisten product to be swept. Dispose in a safe manner in accordance with local, state, and federal regulations.

SECTION 14: Transport Information

Not regulated per U.S DOT, IATA, or IMO.

Proper Shipping Name

Consumer Commodity

UN Number

Non-regulated

Packing Group

Non-regulated

Label

Non-regulated

Reportable Quantity

Non-regulated

Hazard Class

Non-regulated

SECTION 15: Regulatory Information

US Federal Regulations**Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA)**

No reportable quantity for this product.

Toxic Substance Control Act (TSCA)

All of the components of this material are listed on the TSCA Chemical Substances Inventory.

Clean Water Act (CWA)

None listed under sections of the Clean Water Act. Contact your local / state authorities to determine if substances are regulated under their jurisdiction.

Clean Air Act (CAA)

None listed under various sections of the Clean Water Act. Contact your local / state authorities to determine if substances are regulated under their jurisdiction.

Superfund Amendments and Reauthorization Act (SARA) Title III Information

This product does not contain chemicals subject to annual release reporting requirements Under SARA Title III, Section 313 (40 CFR 372):

European/International Regulations**Control of Substances Hazardous to Health (COSHH)**

Component(s) are listed under various sections of the COSHH regulation. Contact your local authorities to determine if substances are regulated under their jurisdiction.

Scottish Environmental Protection Agency (SEPA)

Component(s) are listed under various sections of SEPA. Contact your local authorities to determine if substances are regulated under their jurisdiction.

Canada

Contact your local authorities to determine if substances are regulated under their jurisdiction.

Hazard Classification**European Union Directives 67/548/EEC and 1999/45/EC****Safety Phrases**

S 22 Do not breathe dust.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 38 In case of insufficient ventilation wear suitable respiratory equipment.

S 36 Wear suitable protective clothing.

U.S. State Regulatory Information

The components of these products are covered under specific State regulations, as denoted below:

California Proposition 65

This product does not contain chemicals regulated under California Proposition 65.

U.S. - New Jersey – Right to Know Hazardous Substance List

Not Regulated

International Air Transport Authority (IATA)

Not regulated

SECTION 16: Other Information**NFPA Hazard Classification****Health:** 1**Flammability:** 0**Instability:** 0**Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification**Health:** 1**Flammability:** 0**Physical Hazard:** 0**Personal Protection:** E

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

0=minimal hazard 1=slight hazard 2=moderate hazard 3=serious hazard 4=extremely hazard

Reference

UNEP Publications, OECD SIDS, Chemical Abstract Search (CAS) Database, European Chemicals Agency (ECHA), Workplace Hazard Material Information System (WHMIS)

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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