



INNOVATIVE POLISHING SYSTEMS, INC. SDS/GHS

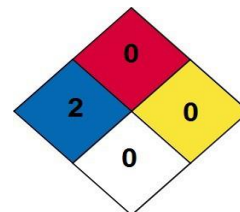
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: **INNOVATIVE POLISHING SYSTEMS, INC.**
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PRODUCT USE/CLASS: GLASS AND ACRYLIC LAPPING
PRODUCT NAME: **GLASS POLISH 406P**

SECTION 2. HAZARD(S) IDENTIFICATION

Statement of Hazardous Nature: Considered a hazardous substance according to OSHA 29 CFR 1910.1200
Hazard Ratings: **Min/Nil= 0 Low= 1 Moderate= 2 High= 3 Extreme= 4**
Flammability: 0 Toxicity: 2 Body Contact: 2 Reactivity: 0 Chronic: 2

Emergency Overview



Risk: H302: Harmful if swallowed.
H319 + H312 + H335: Irritating to eyes, respiratory system and skin.

Potential Health Effects/Acute Health Effects



Ingestion: H302: Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. P301+312 If Inhaled, immediately call a poison center or doctor/physician

Eye Contact: H319: This material can cause eye irritation and damage in some persons.
Precautionary Statements: P280 – Wear protective gloves/ eye protection/ face protection.
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 help.

Skin Contact:

H315: This material can cause inflammation of the skin on contact in some persons. This material may accentuate any pre-existing dermatitis condition. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream through, for example cuts, abrasions or lesions; may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Absorption by skin may readily exceed vapor exposure, symptoms for skin absorption are the same as for inhalation.
Precautionary Statements: P280 – Wear protective gloves/ eye protection/ face protection. P332+P352 If skin irritation occurs, wash with plenty of soap and water.



Inhalation:

H332: Harmful If inhaled. H336: The material can cause respiratory irritation for certain individuals; the body's response to such irritation can cause further lung damage. Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual. Individuals with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. Effects on lungs are significantly enhanced in the presences of respirable particles. Exposure to vapors of some rare earth sales can cause sensitivity to heat, itching, and increased sensitivity of smell and taste. Other effects include inflamed airways and lung, emphysema, regional narrowing of terminal airways and cell changes.
Precautionary Statements: P280 – Wear protective gloves/ eye protection/ face protection. P304+P340 If inhaled, remove victim to fresh air and keep at rest position for comfortable breathing. P342+P311 If experiencing respiratory symptoms, call a poison center or doctor/physician .

Chronic Health Effects:

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled (long term) Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Overexposure to respirable dust may cause coughing, wheezing, difficulty breathing and impaired lung function. Chronic systems may include decreased vital lung capacity, chest infections. Repeated exposures, in an occupational setting, to high levels of fine-divided dusts may produce a condition known as pneumoconiosis which is the lodgment of any inhaled dusts in the lung irrespective of the effects. This is particularly true when a significant number of particles less than 0.5 microns (1/50,000 inch), are present. Lung shades are seen in the X-ray. Symptoms for Pneumoconiosis may include a progressive dry cough, shortness of breath on exertion (exertional dyspnea), increased chest expansion, weakness, and weight loss. As such disease progresses, the cough produces a stringy mucus, vital capacity decreases further, and shortness of breath becomes more severe. Other signs or symptoms include altered breath sounds, diminished lung capacity, diminished oxygen uptake during exercise, emphysema and pneumothorax (air in lung cavity) as a rare complication. Removing workers from possibility of further exposure to dust generally leads to halting the process of the lung abnormalities. Where worker-exposure potential is high, periodic examinations with emphasis on lung dysfunctions should be undertaken. Dust inhalation over an extended number of years may product pneumoconiosis. Pneumoconiosis is the accumulation of dust in the lungs and the tissues reaction in its presence. It is further classified as being of non-collagenous or collagenous types.



Non collagenous pneumoconiosis, the benign form, is identified by minimal stoll reaction, consists mainly of reticulin fibers, an intact alveolar architecture and is potentially reversible. Cerium is one of the rare earth metals - light type (cerium family). Rare earth metals have not been shown to have toxic effects, but dust inhalation can still cause scarring of the lungs
Precautionary Statements: P280 – Wear protective gloves/ eye protection/ face protection.P342+P311 If experiencing respiratory symptoms, call a poison center or doctor/physician

SECTION 3. INGREDIENTS

Product Name:	LA2O3
Cas #:	1312-81-8
Concentration(%):	> 33%
Product name:	AL2O3
Cas#:	1344-28-1
Concentration(%):	>14%
Product name:	lithopone ZnsO4+BaSO4
Concentration(%):	>5%
Cas#: 7727-43-7	BaSO4
Cas#: 1314-98-3	Zns
Cas#: 14464-46-1	SiO2
Concentration (%):	>1%
Product name:	Rare earth oxide
Concentration(%):	>15%
Cas#: 68188-83-0	REO
Product name:	Calcium oxide
Concentration(%):	>5
Cas#: 1305-78-8	CaO
Concentration(%):	>1%
Product name:	H2O
Concentration(%):	>30%

SECTION 4. FIRST AID MEASURES

Ingestion:	If it occurs, seek medical assistance.
Eye Contact:	Flush eyes with plenty of water if irritation processes, seek medical assistance.
Skin Contact:	Wash with plenty of water, if irritation persists, seek medical assistance.
Inhalation:	If it occurs, move to ventilated area; If required, seek medical assistance.
Actions to avoid:	(Not Applicable)
Protection for the provider of Aid:	If there is dust generation, use the dust mask and safety glasses.
Notes to Physician:	For poisons (where specific treatment regime is absent) Basic Treatment: -Establish a patent airway with suction where necessary -Watch for signs of respiratory insufficiency and assist ventilation as necessary. -Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Vapor Pressure (mmHg):	Negligible
Upper Explosive Limit(%):	Not Applicable
Specific Gravity (water=1):	7.62 - 7.65

Lower Explosive Limit (%):	Not Applicable
Extinguishing Media:	There is no restriction on the type of extinguisher which may be used. Using extinguishing method suitable for surrounding fire.
Fire Fighting:	Alert Emergency Responders and tell them location and nature of hazard Wear breathing apparatus plus protective gloves for fire only.
General Fire Hazards/ Hazardous combustible products:	Noncombustible Not considered to be significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: (Metal Oxides). May emit poisonous fumes. May emit corrosive fumes.
Fire Incompatibility:	None Known
Personal Protection:	Protection in accordance with regulations of the entity involved in the fight. Glasses- Chemical goggles. Gloves Respirator: Particulate

SECTION 6. ACCIDENTAL RELEASE MEASURES

Minor Spills:	Remove all ignition sources. Clean up all spills immediately Avoid contact with skin and eyes. Control personal contact by using protective equipment Use dry clean up procedures and avoiding generating dust. Place in a suitable labeled container for waste disposal.
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Major Spills:	Moderate hazard. CAUTION: Advise personnel in area
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Alert Emergency Responders and tell them location and nature of hazard.

SECTION 7. HANDLING AND STORAGE

Procedure For Handling:	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.
Recommended Storage Methods:	Polyethylene or propylene container. Check all containers are clearly labeled and free from leaks.
Storage Requirements:	Store in original containers Keep containers securely sealed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

Respiratory Protection:	Where inhalation risk exists use approved dust respirator. (OSHA r29 CFR1910.134)
Eyes/Face Protection:	Safety glasses with side shields Chemical Goggles
Skin and Body Protection:	Choose body protection in relation to its type, to the concentration and amount of substances, and to the specific work-place/type of work. The type of protective equipment must be selected according to the concentration and amount of the substance at the specific work-place/type of work. Suitability and durability of glove type is dependent upon usage. Base glove selection on factors such as frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity. Select gloves tested to a relevant standard. Contaminated gloves should be replaced. Wash and dry hands thoroughly before and after handling material.

The following polymers have been found to be suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present; Polychloroprene, Nitrile rubber, Butyl rubber, Fluorocautchou, Polyvinyl Chloride.

Engineering Control Measures: Local exhaust ventilation usually required. If risk of overexposure exists, wear an approved respirator.

Exposure Limits: Not Available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid **Color:** White/Off-white **Odor:** Odorless **State:** Powdered Solid **pH:** Not Applicable
Melting Point: 4712° F **Molecular Weight:** 172.13
Freezing Point: Not Applicable **Decomposition Temperature:** Not Available
Boiling Point range and initial boiling point: Not Applicable **Evaporation Rate:** Not Applicable
Flash Point: Not Applicable **Autoignition Temperature:** Not Available
Flammability: Product Non-Flammable **Volatile Component:** Negligible
Lower limit/upper flammability or explosion: Not Applicable **Vapor Density:** Not Applicable
Vapor Pressure (mmHg): Negligible **Viscosity:** Not Applicable
Specific Gravity (water=1): 7.62 - 7.65 **Soluble in:** Sulfuric acid plus a reducing agent

SECTION 10. STABILITY AND REACTIVITY

Conditions Contributing to Instability: Presence of incompatible materials
Product is considered stable.

Storage Incompatibility: Metals and their oxides or salts may react violently with chlorine trifluoride and bromine trifluoride.
These trifluorides are hypergolic oxidizers. They ignite on contact (without external source of heat or ignition) with recognized fuels - contact with these materials, following an ambient or slightly elevated temperature, is often violent and may produce ignition.
The State of subdivision may affect the results.
For incompatibility materials - refer to Section 7 - Handling and Storage

SECTION 11. TOXICOLOGICAL INFORMATION

Routes of Entry: Skin contact, Eye contact, Inhalation, and Ingestion

Toxicity to Animals: Oral (rat) LD50: 5000mg/kg

Chronic Effects to Humans: Not Available

Other Toxic Effects to Humans: Slightly hazardous in case of skin contact (irritation), of ingestion, of inhalation

Special Remarks on Toxicity to Animals: Not Available

Specific Remarks on Chronic Effects to Humans: Not Available

Specific Remarks on other Toxic Effects to Humans: Acute potential Health Effects; may cause mild skin irritation.
Eyes: dust may be irritating to eyes.
Inhalation: dust may be irritating to respiratory tract. it is expected to be a low inhalation hazard for usual industrial handling.
Ingestion; may cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea. it is expected to be a low ingestion hazard for usual industrial handling.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Effects, behaviors, and impacts

of the products:	It isn't expected that this product cause environmental problems during handling, application or disposal.
Eco-toxicity:	It isn't expected that this product presents a danger.
Persistence and degradability:	Not Available
Bioaccumulation potential:	Not Available
Mobility in soil:	Not Available
Other adverse effects:	Not Available

SECTION 13. DISPOSAL CONSIDERATION

Recommended methods for treatment and disposal apply to

Product:

It can be arranged usually in bulk bags, paper bags and plastic, lacking these, use a container provided that supports the weight. Dispose of in accordance with all Local, State, Federal Regulations.

Used Packaging:

If in good condition, can be reused and/or recycled. Dispose of in accordance with all Local, State, Federal Regulations.

SECTION 14. TRANSPORTATION INFORMATION

National and International Regulations

Land: Goods are not dangerous for transport by IATA. Product is not dangerous for transport by land, under the conditions required by law.

Sea: Goods are not dangerous for transport by IATA. Product is not dangerous to ship, under the conditions required by law

Air: Goods are not dangerous for transport by IATA. Product is not dangerous for air transport, under the conditions required by law.

U.S Department of Transportation (DOT): Not Classified

SECTION 15. REGULATORY INFORMATION

AL2O3 (CAS 1306-38-3) is found on the following Regulatory list:

- Canada Domestic Substance List (DSL)
- US DOE Temporary Emergency Exposure Limits (TEELS)
- US Toxic Substances Control Acts (TSCA) – Inventory

SECTION 16. OTHER INFORMATION

Note: The information contained in the MSDS is taken from sources believed to be accurate as of the date hereof;

However Innovative Polishing Systems Inc. makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations and assumes no liabilities to any user thereof.

Important information but not specifically described in the previous sections:



- Requires no special procedure for sampling.
- Not recommended for use in foods, pharmaceuticals, and cosmetic production.
- The information and recommendations found here are applied only to this product, not combined with any other material.
- All figures expressed in this document are typical values and can occur in variations.

The data given are based on the current state of our knowledge.
It is the buyer's responsibility before using any product to verify date on
operating conditions and determine if the product is appropriate for your
purposes.

Table of Abbreviations:

CAS: Chemical Abstract Services

cm³: Cubic centimeter **g:** Gram **mg:** Milligram

SDS (MSDS): (Material) Data Safety Sheet

TSCA: Toxic Substance Control Act of 1976

DOT: Department of Transportation

C: Centigrade **F:** Fahrenheit

DOE: Department of Energy

TEELS: Temporary Emergency Exposure Limits

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