

MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: PSI Clear

Synonyms: MP-1; MP-2; MP-3; LP-1; LP-2; LP-3; LP-6, LP-8, MP series and DS series

Distributor Name:
Practical Systems, Inc.
11617 Prospect Road
Odessa, FL 33556
Telephone: 727-376-7900

Emergency Telephone:
+1 413-562-3641

Intended Use: Polish

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Liquid

Color: White

Odor: No data available.

WARNING!

Causes eye irritation. May cause skin irritation.

Potential Health Effects

Inhalation: In high concentrations, vapors may be irritating to the respiratory system.

Eye Contact: Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

Skin Contact: May cause skin irritation.

Ingestion: May cause discomfort if swallowed.

Chronic Health Effects: No data available.

Target Organ(s): | Eye | Skin | Respiratory system | Lung |

Potential Physical / Chemical Effects: This product is not flammable.

OSHA Regulatory Status: This product is hazardous according to OSHA 29CFR 1910.1200.

Environment: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3	COMPOSITION / INFORMATION ON INGREDIENTS
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Chemical Name	CAS-No.	Concentration*
†Aluminium oxide	1344-28-1	18 - 20%
†Aluminum nitrate	7784-27-2	1 - 5%
†Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	0.05 - 0.2%

* All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

† This chemical is hazardous according to OSHA/WHMIS criteria.

4	FIRST AID MEASURES
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Inhalation: Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Flush thoroughly with water. If irritation occurs, get medical assistance. Get medical attention.

Skin Contact: Flush skin thoroughly with water. If irritation occurs, get medical assistance.

Ingestion: Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

5	FIRE-FIGHTING MEASURES
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Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable Extinguishing Media: None.

Special Fire Fighting Procedures: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Unusual Fire & Explosion Hazards: None known.

Hazardous Combustion Products: Alumina compounds, Nitrogen Oxides

Protective Measures: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6	ACCIDENTAL RELEASE MEASURES
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Personal Precautions: Avoid contact with eyes and prolonged skin contact. Wear appropriate personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

Spill Cleanup Methods: Absorb in vermiculite, dry sand or earth and place into containers. Collect and dispose of spillage as indicated in section 13 of the MSDS.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

Notification Procedures: Inform authorities if large amounts are involved.

7	HANDLING AND STORAGE
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Handling: Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Use only in well-ventilated areas. Observe good industrial hygiene practices.

Storage: Store in a cool and well-ventilated place. Keep container closed when not in use. Store away from incompatible materials.

8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Aluminium oxide	CA. Alberta OELs	TWA	10 mg/m ³	
Aluminium oxide (Dust.)	CA. Ontario OELs	TWA	10 mg/m ³	
Aluminium oxide (Total dust.)	CA. Ontario OELs	TWA	10 mg/m ³	
Aluminium oxide	MEX. OELs	TWA	10 mg/m ³	
Aluminium oxide (Respirable fraction.)	US. OSHA Z-1 PEL	TWA	5 mg/m ³	
Aluminum nitrate	CA. Alberta OELs	TWA	2 mg/m ³	as Al
Aluminum nitrate	CA. British Columbia OELs	TWA	2 mg/m ³	as Al
Aluminum nitrate	CA. Quebec OELs	TWA	2 mg/m ³	as Al
Aluminum nitrate	MEX. OELs	TWA	2 mg/m ³	
Distillates (petroleum), hydrotreated light naphthenic	CA. Ontario OELs	TWA	1600 mg/m ³	
Distillates (petroleum), hydrotreated light naphthenic	US. OSHA Z-1 PEL	TWA	2000 mg/m ³ 500 ppm	

Engineering Controls: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of spray. Observe good industrial hygiene practices.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: High-efficiency particulate respirator.

Eye Protection: Wear approved safety goggles.

Hand Protection: Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Skin Protection: Apron and long sleeves are recommended.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental Exposure Controls: Environmental manager must be informed of all major spillages.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Color: White
Odor: No data available.
Odor Threshold: No data available.
Physical State: Liquid
pH: 2.4 - 3.5
Melting Point: Not applicable.
Freezing Point: No data available.
Boiling Point: 100°C (212°F)
Flash Point: No data available.
Evaporation Rate: 1
Flammability Limit - Upper (%): No data available.
Flammability Limit - Lower (%): No data available.
Vapor Pressure: 3.1 kPa (@ 25°C)
Vapor Density (Air=1): 1.1 - 1.2
Specific Gravity: 1.17 (@ 25°C)
Solubility in Water: Completely soluble in water
Solubility (Other): Not applicable.
Partition Coefficient (n-Octanol/water): No data available.
Autoignition Temperature: No data available.
Decomposition Temperature: No data available.
Viscosity: 40 cps

10	STABILITY AND REACTIVITY
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Stability: Stable under normal temperature conditions

Conditions to Avoid: Excessive heat. Freezing.

Incompatible Materials: Strong bases.

Hazardous Decomposition Products:

At Elevated Temperatures:	Alumina compounds, Nitrogen Oxides
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Possibility of Hazardous Reactions: Will not occur.

11	TOXICOLOGICAL INFORMATION
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Specified Substance(s)

Acute Toxicity:

Chemical Name	Test Results
Aluminum nitrate	Oral LD50 (Rat): 3671 mg/kg
Distillates (petroleum), hydrotreated light naphthenic	Inhalation LC50 (Rat): 2.81 mg/l

Listed Carcinogens: None.

Product Information

Acute Toxicity:

Test Results: No test data available for the product.

Other Acute: Causes eye irritation. May cause skin irritation.

Chronic Toxicity: No data available.

12	ECOLOGICAL INFORMATION
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Ecotoxicity: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Mobility: The product is soluble in water.

Persistence and Degradability: No data available.

Bioaccumulation Potential: No data available.

13	DISPOSAL CONSIDERATIONS
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General Information: Dispose of waste and residues in accordance with local authority requirements.

Disposal Methods: Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

14	TRANSPORT INFORMATION
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DOT Not regulated.

TDG Not regulated.

IATA Not regulated.

IMDG Not regulated.

15	REGULATORY INFORMATION
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Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: D2B

Mexican Dangerous Statement: This product is dangerous according to Mexican regulations.

Inventory Status

This product or all components are listed or exempt from listing on the following inventory: DSL, TSCA

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4): Not regulated.

SARA Title III

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated.

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372):

Chemical Name	CAS-No.	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Aluminum nitrate	7784-27-2	10000 lbs	25000 lbs
Aluminium oxide	1344-28-1	10000 lbs	25000 lbs

For reporting purposes: the De Minimis Concentration for a toxic chemical in a mixture is 0.1% for carcinogens as defined in 29 CFR 1910.1200(d)(4) or 1% for others.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Not regulated.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Not regulated.

Drug Enforcement Act: Not regulated.

TSCA

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E): Not regulated.

TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Not regulated.

Massachusetts Right-To-Know List: Aluminium oxide; Distillates (petroleum), hydrotreated light naphthenic

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): Not regulated.

Minnesota Hazardous Substances List: Aluminium oxide; Aluminum nitrate

New Jersey Right-To-Know List: Aluminium oxide; Aluminum nitrate

Pennsylvania Right-To-Know List: Aluminium oxide; Aluminum nitrate

Rhode Island Right-To-Know List: Aluminium oxide

16	OTHER INFORMATION
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HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	1	0	0	--

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	1	0	0	X

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Personal Protection codes: X - Specialized Handling

HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

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Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.