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SECTION 1: Identification

Product Identifier

Product Name Policool 2.0

Product form: Liquid

Color: Grey

Odor: Slight Solvent Odor

Recommended Use: Liquid Abrasive product to polish polycarbonate and other substrates.

Supplier's details

MANUFACTURER

Azuradisc, Inc.

ADDRESS:

7307 South 89th

Place

Mesa, AZ 85212

TELEPHONE: 480-827-8786

Toll Free telephone number 1-800-933-4923 Emergency Telephone: Dial 911 in the United States.

SECTION 2: Hazards identification

WARNING!

Causes eye irritation. May cause skin irritation.

Potential Health Effects

Inhalation: Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Prolonged or repeated exposure may cause:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

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

Skin Contact: Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

May be absorbed following ingestion and cause target organ effects.

Ingestion: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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

Target Organ Effects: Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, Slowed reaction time, slurred speech, giddiness, and unconsciousness.

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.

**SECTION 3: Composition/information on ingredients****Ingredients**

Chemical Name	CAS-No.	Concentration*
Water	7732-18-5	40-70
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	64742-14-9	7-13
† Aluminum oxide	1344-28-1	5-10
† HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	3-7
DECAMETHYLCYCLOPENTASILOXANE	541-02-6	3-7
DODECAMETHYLCYCLOHEXASILOXANE	540-97-6	1-5
† Aluminum Silicate Clay (ceramic materials and wares)	66402-68-4	1-5

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

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

SECTION 4: First aid measures

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention. If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

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: Remove contaminated clothing and shoes. Flush skin thoroughly with water. If irritation occurs, get medical assistance. Wash contaminated clothing and clean shoes before reuse

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

SECTION 5: Firefighting measures

Extinguishing Media: Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

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

FLAMMABLE PROPERTIES

Auto ignition temperature No data available

Flash Point 170 °F [Test Method: Closed Cup] Flammable Limits - LEL No Data Available

Flammable Limits - UEL No Data Available

Protective Measures: Special Fire Fighting Procedures: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a Self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Combustible liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Note: See **STABILITY AND REACTIVITY (SECTION 10)** for hazardous combustion and thermal decomposition information.



SECTION 6: Accidental release measures

Personal Precautions: Avoid contact with eyes and prolonged skin contact. Wear appropriate personal protective Equipment. See Section 8 of the Safety Data Sheet for Personal Protective Equipment. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

Spill Cleanup Methods: Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

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

Notification Procedures: Inform authorities if large amounts are involved.

SECTION 7: Handling and storage

Handling: Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, Sparks, open flame, pilot lights and other sources of ignition. Avoid breathing of vapors, mists or spray. Keep out of the reach of Children. Avoid contact with oxidizing agents. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

Storage: Store in a cool and well-ventilated place. Keep container closed when not in use. Store away from acids. Store away from heat. Store out of direct sunlight. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

Exposure Limits:

Ingredient	Authority	Type	Limit	Additional Information
ALUMINUM OXIDE	ACGIH	TWA, particulate matter, < 1% crystalline silica	10 mg/m3	Table A4
ALUMINUM OXIDE	CMRG	TWA 1 fiber/cc		
ALUMINUM OXIDE	OSHA	TWA, respirable	5 mg/m3	Table Z-1
ALUMINUM OXIDE	OSHA	TWA, Vacated, as dust	10 mg/m3	
ALUMINUM OXIDE	OSHA	TWA, as total dust	15 mg/m3	Table Z-1
DECAMETHYLCYCLOPENTASILOXANE	CMRG	TWA	10 ppm	
HYDROTREATED LIGHT PETROLEUM DISTILLATES	CMRG	TWA	300 ppm	
OIL MIST, MINERAL	ACGIH	TWA, as mist	5 mg/m3	
OIL MIST, MINERAL	ACGIH	STEL, as mist	10 mg/m3	
OIL MIST, MINERAL	OSHA	TWA, as mist	5 mg/m3	Table Z-1

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)



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. Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half face piece or full-face air-purifying respirator with organic vapor cartridges and P100 particulate prefilters.

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.

SECTION 9: Physical and chemical properties

Color: Grey

Odor Threshold: Slight solvent Odor

Physical State: Liquid emulsion

pH: 7.5 - 8.5

Melting Point: Not applicable.

Freezing Point: No data available.

Boiling Point: 375°F

Flash Point: 170° F.

Evaporation Rate: 1

Flammability Limit - Upper (%): No data available.

Flammability Limit - Lower (%): No data available.

Vapor Pressure: No data available.

Vapor Density (Air=1): No data available.

Specific Gravity: 0.96 [Ref Std: WATER=1]

Solubility in Water: Negligible

Solubility (Other): Not applicable.

Hazardous Air Pollutants 0.00072 lb HAPS/gal

Volatile Organic Compounds 14.66 % [Test Method: calculated SCAQMD rule 443.1] [Details: excluding exempt compounds]

Volatile Organic Compounds 140.95 g/l [Test Method: calculated SCAQMD rule 443.1] [Details: excluding exempt compounds]

VOC Less H2O & Exempt Solvents 396.31 g/l [Test Method: calculated SCAQMD rule 443.1] Viscosity 8000 - 14000 centipoise

Partition Coefficient (n-Octanol/water): No data available.

Auto ignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: 8000 - 14000 centipoise

SECTION 10: Stability and reactivity

Stability: Stable under normal temperature conditions

Conditions to Avoid: None known

Incompatible Materials: Strong bases.

Hazardous Polymerization: Hazardous polymerization will not occur. Hazardous Decomposition or By-Products

Substance Condition Formaldehyde during Combustion

Carbon monoxide during Combustion

Oxides of Nitrogen during Combustion

Possibility of Hazardous Reactions: Will not occur.



SECTION 11: Toxicological information

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.

SECTION 12: Ecological information

Eco toxicity: 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.

SECTION 13: Disposal considerations

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

EPA Hazardous Waste Number (RCRA): Not regulated

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. Incinerate in an industrial or commercial facility. As a disposal alternate- tie, dispose of waste product in a Facility permitted to accept chemical waste.

SECTION 14: Transport information

ID Number(s): 60-4100-0962-9, 60-4100-0973-6, 60-4400-9509-3, 60-4400-9520-0

Please contact the emergency numbers listed on the first page of the MSDS for Transportation In- formation for this material

**SECTION 15: Regulatory information****311/312 Hazard Categories:**

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

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

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):

X	Acute (Immediate)
	Chronic (Delayed)
	Fire
	Reactive

CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact Azuradisc for more information.

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.
Aluminum 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: Aluminum oxide; Distillates (petroleum), hydro treated light naphthenic

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)):



Not regulated.

Minnesota Hazardous Substances List: Aluminum oxide; Aluminum nitrate

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

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

Rhode Island Right-To-Know List: Aluminum oxide

SECTION 16: Other information

NFPA Hazard Classification

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	1	2	0	N

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	FLAMIBILITY	PHYSICAL HAZARD	PERSONAL PROTECTION
HMIS	1	1	0	X

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; - 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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