

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: LogiPol Haze Inhibitor Premix

Application: Cleaning / Haze reducing compound

Manufacturer Information: Corporate Offices:

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture of: Isopropanol, ethylene glycol, silica and water

Component	CAS-No.	Hazard classification	Notes
Isopropanol	67-63-0	OSHA TWA 400 ppm (980 mg/kg) ACGIH TWA 400 ppm (980 mg/kg) ACGIH STEL 500 ppm (1225 mg/kg) NIOSH CEIL 800 ppm (15 min.)	
Ethylene Glycol	107-21-1	Aerosol 100 mg/m ³ Ceiling ACGIH 125mg/m ³ Ceiling OSHA-Vacated 50 ppm Ceiling OSHA Vacated Aerosol and Vapor 100 mg/m ³ Ceiling UCC	
Silica	7631-86-9	(AS DRY) TLV(US)=10 mg/m ³ total dust for particles not otherwise classified. PEL(US)=not applicable TRGS 900 (Germany)=4 mg/m ³ inhalable dust. OES (UK)=6 mg/m ³ total inhalable, 2.4 mg/m ³ respirable dust. TLV(Australia)=10 mg/m ³ total dust containing no asbestos and <1% crystalline silica.	
Deionized Water	7732-18-5	Non-hazardous.	

3. HAZARDS IDENTIFICATION

Emergency Overview: Not listed as a carcinogen by IARC, NTP, or OSHA. May cause slight irritation to skin and eyes.

Potential Health Effects

No adverse effects anticipated with exposures to product vapors under normal conditions of use. Prolonged or repeated exposures to high concentrations of product mists or vapors may cause discomfort and persistent **Eyes:** conjunctivitis seen as redness of the conjunctiva. Exposure to extremely high concentrations of isopropanol vapor, mists or to liquid product may cause corneal damage from isopropanol chemical action or from mechanical action of product solids fraction.

No adverse effects are expected from minimal skin contact with ethylene glycol. Skin contact exposure to isopropanol may include those effects described for ingestion of isopropanol. Prolonged or repeated gross skin **Skin:** contact may cause defatting and drying of the skin. Skin contact with this material may result in those effects mentioned for the individual formulation components. Additionally, topical irritation from mechanical irritation may occur at the site of contact.

Ingestion of ethylene glycol may cause abdominal pain, nausea, vomiting, drunkenness, dizziness, irritability, lumbar pain, oliguria, uremia, central nervous system effects including irregular eye movements, convulsions and coma. Severe kidney damage may occur. Ingestion of large quantities may be fatal. Isopropanol is slightly **Ingestion:** toxic by ingestion. Effects of ingestion may include abdominal discomfort or pain, nausea, vomiting, diarrhea, drowsiness and unconsciousness. Ingestion of this product may cause those effects described for the individual components.

Inhalation of ethylene glycol may cause irritation of the throat with headache, particularly from mists. High vapor concentration may cause nausea, vomiting, headache, dizziness, drunkenness, central nervous system depression, irregular eye movements and narcosis with repeated exposures. Low concentrations of isopropanol **Inhalation:** vapor may cause respiratory tract irritation experienced as nasal discomfort and discharge with chest pain and coughing. High concentrations of vapor may cause headache and drowsiness. No additional adverse effects expected from repeated exposures. Effects of inhalation exposure to this product may include the effects listed for the individual formulation components.

4. FIRST-AID MEASURES

Eye Contact: Immediately flush eyes with copious amounts of water for at least 15-20 minutes. If irritation develops or persists, seek medical attention.

Skin Contact: Wash exposed areas with copious amounts of water. If irritation develops or persists, seek medical attention.

Ingestion: If patient is conscious and has gag reflex, give two glasses of water, induce vomiting. Do not induce vomiting in unconscious individuals. Obtain medical assistance immediately.

Inhalation: Remove patient to fresh air. If breathing is difficult, administer emergency oxygen. If discomfort persists seek medical attention. If breathing stops, administer artificial respiration and immediately seek emergency medical assistance.

5. FIRE FIGHTING MEASURES

Flash Point: >200°F (>94 °C) PMCC

Method Used: n/a

Upper Flammable Limit (UFL): n/a

Lower Flammable Limit (LFL): n/a

Auto Ignition: n/a

Flammability Classification: Not Flammable

Rate of Burning: n/a

General Fire Hazards: Combustible liquid.

Hazardous Combustion Products: Carbon monoxide (CO) possible during incomplete combustion.

Extinguishing Media: Use normal extinguishing media for combustible liquids such as dry carbon dioxide (CO₂), dry chemical or foam.

Fire Fighting Equipment / Instructions: Use standard fire fighting procedures for combustible liquids when fighting fires involving this product. Firefighters should wear full-face, self contained breathing appropriate NIOSH/OSHA approved self-contained breathing apparatus operated in pressure-demand or other positive pressure mode when fighting fires. Firefighters should avoid inhaling any combustion products.

6. ACCIDENTAL RELEASE MEASURES

Containment Procedures: Stop the flow of material, if this is without risk, by eliminating source of leak or spill. Dike to prevent spread of

Clean-Up Procedures: Wear appropriate protective equipment and clothing during clean-up. Absorb spill with inert material. Shovel

Evacuation Procedures: Isolate area. Keep unnecessary personnel away.

Special Procedures: Consult with local authorities or determine applicable spill or release notification and reporting requirements.

7. HANDLING AND STORAGE

Handling Procedures: Avoid contact with skin and eyes. Observe good industrial hygiene practices and wash thoroughly after

Technical Measures: Work practice should minimize contact.

Technical Precautions: Local exhaust is recommended.

Storage Procedures: Store in tightly closed original container in a cool, well-ventilated place away from incompatible materials. Keep

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

Personal Protective Equipment (PPE)

Eyes/Face: Wear safety glasses, chemical goggles, or, a full face shield. Provide emergency eye-wash nearby.

Skin: Use impervious gloves. Use of impervious apron, sleeves and boots are recommended.

Respiratory: If local ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH / MSHA respiratory protection must be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance:** White**Boiling Point:** 212°F (100°C)**Odour:** Slight odour of alcohol**Flash Point:** >200°F (>94 °C) PMCC**pH:** Neutral**Solubility (H₂O):** Dispersible**Physical State:** Liquid**Viscosity:** Medium**Melting Point:** 32°F (0°C)

10. STABILITY AND REACTIVITY**Chemical Stability:** This is a stable material.**Conditions to Avoid:** None specific**Incompatibility:** Strong acids, bases and oxidizing materials.**Hazardous Decomposition Products:** May liberate carbon monoxide (CO), carbon dioxide (CO₂), and products of incomplete combustion when burned.

11. TOXICOLOGICAL INFORMATION**Inhalation:** See previous stated levels in Potential Health Effects, Section 3.**Skin Contact:** See previous stated levels in Potential Health Effects, Section 3.**Eye Contact:** See previous stated levels in Potential Health Effects, Section 3.**Ingestion:** See previous stated levels in Potential Health Effects, Section 3.

12. ECOLOGICAL INFORMATION**Mobility:** This product is water soluble and may spread in water systems.**Degradability:** The degradability of the product has not been stated.**Ecotoxicity:** The product is not expected to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS**US EPA Waste Number and Descriptions****General Product Information:** If this product becomes a waste, it does not by itself meet the criteria for hazardous waste as defined under the Resource Conservation and Recovery Act. (40 CFR 261 Subparts C and D).**Component Waste Numbers:** No EPA Waste Numbers are applicable for this product's components.**Disposal Instructions****Waste Material:** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.**Contaminated Packaging:** Dispose of contaminated packaging as residue.

14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods.

15. REGULATORY INFORMATION

Precautionary Label: "DO NOT FREEZE" OR "KEEP FROM FREEZING"

16. OTHER INFORMATION

All components of this product are listed on the Toxic Substances Control Act (TSCA) Section 8(b) inventory. (40 CFR 110)

This product does not contain any components designated Extremely Hazardous Substances under SARA Title III. (40 CFR 355)

This product contains the following component which may require reporting under the Superfund Amendments and Reauthorization Act (SARA Title III), Section 313 Toxic Chemical Release Inventory reporting requirements (40 CFR 372): Ethylene Glycol, <5%

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This is the end of the SDS for LogiPol Haze Inhibitor Premix.
