

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

PRODUCT NAME

POLYCRYSTALLINE DIAMOND AEROSOL SPRAY**SECTION 2. Composition/Information on Ingredients**

Name	CAS Number	Percent	OSHA PEL	ACGIH TLV
Denatured alcohol	Mixture	40 - 65	1000 ppm*	1000 ppm*
Hydrocarbon propellant	68-476-86-8	35 - 50	1000 ppm	800 ppm (est)
Isopropyl alcohol	67-63-0	5 - 20	400 ppm	400 ppm

*These values are based on those for ethyl alcohol alone

SECTION 3. Hazards Identification**Emergency overview:** Extremely flammable. Contents under pressure. Do not puncture can.**Potential health effects****Eye:** May cause irritation and excess redness of the conjunctiva.**Skin:** May cause irritation and drying.**Ingestion:** May cause dizziness, faintness, drowsiness, decreased awareness and responsiveness, euphoria, abdominal discomfort, nausea, vomiting, staggering gait, lack of coordination, and coma.**Inhalation:** Possible irritation of the respiratory tract, nasal discomfort, chest pain, coughing, nausea, intoxication, dizziness, and drowsiness.**Chronic health effects/Carcinogenicity****NTP:** Not listed.**OSHA:** Not listed.**IARC:** Not listed.

Medical restrictions: Repeated exposure to ethanol may aggravate liver injury produced from other causes.



SECTION 4. First Aid Measures

Eyes: Flush with water for at least 15 minutes. Consult a physician if irritation persists. Wash with soap and water.
Skin:
Ingestion: If patient is conscious, give two glasses of water and induce vomiting. Call a physician. Remove victim
Inhalation: to fresh air. Administer artificial respiration or oxygen if necessary. Call a physician.

SECTION 5. Fire Fighting Measures

Fire fighting:

Extinguishing media: Hazardous combustion products: Flash point:

Lower flammable limit: Upper flammable limit: Autoignition:

Conditions of flammability:

Explosion data

Impact sensitivity: Static discharge:

Use self-contained breathing apparatus and protective clothing. Use water spray to cool fire-exposed containers. Use water spray to disperse vapors; re-ignition is possible.

Dry chemical, carbon dioxide, or foam.

Carbon monoxide and carbon dioxide.

-127° F (as released from the can).

1.8 (propellant); 3.3 (ethyl alcohol).

9.5 (propellant); 19.0 (ethyl alcohol).

Not known.

Vapor from this product may travel via air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges, or other ignition sources distant from the handling point. Vapor from this material may settle in low or confined areas and flash back explosively. May produce a floating fire hazard in extreme conditions.

Not known.

May cause explosion.

SECTION 6. Accidental Release Measures

General: Eliminate ignition sources; wear suitable protection.

Small spills: Flush with large amounts of water.

Large spills: Collect for disposal.

SECTION 7. Handling and Storage

Handling: Wear appropriate protection. Areas of use should be designated non-smoking areas. Wash promptly after contact with material.

Storage: Store in a cool dry place away from sparks or open flame.



SECTION 8. Exposure Controls/Personal Protection

Exposure limits: Ventilation:

Respiratory protection: Eye protection:

Skin protection: Other:

See section 2.

General ventilation is sufficient for storage and intermittent use; but local exhaust is recommended where vapor concentrations exceed lower limits of flammability or established exposure limits. Use explosion-proof electrical apparatus (group D).

NIOSH-approved respirator for organic vapor.

Safety glasses or monogoggles.

Neoprene or PVC-coated gloves.

Eye bath and safety shower should be available.

SECTION 9. Physical and Chemical Properties

Physical state: Color:

Odor:

Specific gravity: Vapor pressure: Vapor density: Evaporation rate:

Volatile fraction by weight: Boiling point: Melting point: Dynamic viscosity: Kinematic viscosity: Solubility in water: pH:

Gas-liquid mixture.

Varies with diamond type and micron size. Astringent.

0.80, water=1 (residual liquid)

48 mm Hg at 68° F (residual liquid)

1.6 - 1.9; air=1

3.6 (residual liquid); butyl acetate=1

One hundred per cent.

171° F (residual liquid)

< -130° F (residual liquid)

Not known. Not known.

Residual liquid completely soluble.

Not applicable.

SECTION 10. Stability and Reactivity

Stability:

Reactivity:

Incompatibility:

Hazardous polymerization: Decomposition:

Stable.

Generally not reactive.

Strong oxidizing agents; strong inorganic acids. Will not occur.

Carbon dioxide and carbon monoxide.



SECTION 11. Toxicological Information

Mild alcohol intoxication occurs at blood levels between 0.05% and 0.15% and approximately 25% of individuals will show signs of intoxication at these levels. Above 0.15%, the person is definitely under the influence of ethanol and 50-95% of individuals at these levels are clinically intoxicated. Severe poisoning occurs when the blood ethanol is 0.3-0.5%. Above 0.5% the individual will be comatose and death can occur.

SECTION 12. Ecological Information

No information is available.

SECTION 13. Disposal Information

RCRA Hazardous waste: This product contains methyl alcohol, ethyl acetate, and methyl isobutyl ketone which are listed as hazardous wastes under RCRA.

Waste disposal: Discarded material should be deposited in an approved landfill in accordance with federal, state, and local regulations.

SECTION 14. Transportation Information

DOT Hazard class: 2.1

Proper shipping name: Flammable gas.

Identification number: UN 1950

SECTION 15. Regulatory Information

Federal EPA

SARA Title III: TSCA Status:

State Right-to-Know California-65: Florida: Massachusetts:

New Jersey: Pennsylvania:

WHMIS Classification:

Methyl alcohol, methyl isobutyl ketone; section 313.

All ingredients of this product are listed on the TSCA inventory.

Acetaldehyde and benzene (trace amounts). Not listed.

Acetaldehyde, ethyl alcohol, methyl alcohol, isopropyl alcohol, ethyl acetate, and methyl isobutyl ketone. Denatured alcohol, isopropyl alcohol. Denatured alcohol, isopropyl alcohol.

Not listed.

SECTION 16. Other

HMIS Code: Health 2, Flammability 4, Reactivity 0

NFPA Code: Health 1, Flammability 4, Reactivity 0

(0=minimal hazard, 1=slight hazard, 2=moderate hazard, 3=serious hazard, 4=extreme hazard)

MATERIAL SAFETY DATA SHEET



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