

I. Product Identification:

Product Name- Water Proof Ink (Black or Yellow)

Product Use- Used for marking lenses **LAST UPDATE 2-21-00**

Identification Number- 6301

NFPA Hazard Ratings: Health- 2, **Fire- 4**, **Reac.-** Not available

II. Hazardous Components:

Hazardous Ingredients	CAS or UN number	TLV (mg/m³)	LD50/LC50
Ethyl Acetate	141-78-9 (CAS)	400ppm	11.3 ml/kg (LD50)
2-Propanol	67-63-0 (CAS)	400ppm	Not available
1-Methoxy Propanol-2	107-98-2 (CAS)	100ppm	Not available
Toluene	108-88-3 (CAS)	100ppm	7.53g/kg (LD50)

III. Physical Data:

Appearance and Odor- Black or Yellow liquid with Alcohol odor

Boiling Pt. (C°)- 71°C (160°F)

Density (g/ml)- For liquids and solids Density = Specific gravity

Evaporation Rt. (Butyl Acetate = 1)- 1.0

Melting Pt. (C°)- Not available

Odor Threshold- Not available

Percent Volatile (v/v)- 80-90%

Physical State- Liquid

pH- Not available

Solubility in water- 75-85%

Specific Gravity (Water = 1)- .9-1.1

Vapor Density (Air=1)- >2

Vapor Pressure (mm Hg)- <40

IV. Fire and Explosion Data:

Flammability (Flashpoint below 37.8°C)- Yes **Flammable Limits: Lower:** 3.0, **Upper-** 19.0

Flash Pt. (C°)- 0-15.6°C (50-60°F)

Autoignition Temp.- Not available

Extinguishing Media: Alcohol Foam, Co2, Dry Chemical, and Water Spray/Fog

Explosion Data- Not an explosive hazard

Special Fire Fighting Procedures- Shut off fuel to fire. Use water to disperse vapors.

V. Health Hazard Data:

Primary Routes of entry: Skin, Inhalation

Eye- Irritating to the eyes. Corneal injury unlikely.

Skin- Mildly irritating to the skin. Prolonged contact with large amounts may cause drowsiness.

Inhalation- May cause mild irritation respiratory tract. Repeated prolonged exposure may cause central nervous effects.

Ingestion- May cause abdominal pain and vomiting. Other effects may include central nervous system depression, rapid heartbeat, low blood pressure and liver damage.

VI. First Aid Data: FOR ALL EXPOSURE: Consult a physician if irritation persists. For Ingestion, seek medical attention immediately.

Eyes- Flush eyes for at least 15 minutes.

Skin- Wash off with warm soap and water.

Inhalation- Remove to fresh air if effects occur.

Ingestion- If conscious induce vomiting. Seek medical attention.

VII. Corrosivity and Reactivity Data:

Stability- Stable

Decomposition Products- Not available

Conditions to avoid- Avoid using where contact may occur with flames, sparks or heated coils. Avoid prolonged inhalation of vapors. Avoid prolonged or repeated skin contact.

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VIII. **Chemical Handling:**

Polymerization- No

Leaks or Spills- Remove ignition sources. Add dry absorbent. Remove with rubber shovel.

Handling and Storage- Exercise reasonable care and caution. Keep and store in a cool dry area.

Keep away from flames, sparks or heated coils.

Waste Disposal Method- Incinerate or landfill in accordance with Federal, State and Local ordinances.

IX. **Personal Protection Information:**

Eye- Use goggles for splash protection.

Respiratory- None normally required. **Ventilation:** Local, Mechanical (General)

Gloves- Use chemically resistant gloves if person is sensitive to material.

Footwear- None normally required.

Work, Hygienic, Maintenance Practices and Special Clothing: Exercise reasonable care and caution. Wash before eating, smoking, or going to the bathroom.

X. **Special Precautions or Other Comments:** Avoid using where contact may occur with flames, sparks or heated coils may occur.

Flammable liquid, can release vapors that form flammable mixtures at temperatures at or above the flashpoint.

XI. **Toxicological Data:**

Carcinogenicity- Contains no carcinogens. **Mutagenicity-** Not available

Reproductive Effects- Not available

Teratogenicity- Some relatively mild developmental effects at maternally toxic levels (rats). See 2-Propanol section II.

TLV (mg/m³)- Not available

LD50- See Sec II.

LC50- Not available

XII. **Regulatory Information:**

Sara Hazard Category- Material	CAS	TLV(mg/m³)	LD50/LC50
Butyl Benzyl Phthalate	85-68-7	Not available	Not available

Canadian Right To Know- No information available.