

I. **Product Identification:**
Product Name- Perma Dye **Product Use-** Liquid colorants for ophthalmic lenses
LAST UPDATE 9-16-02
Identification Number- DY-001, etc. **NFPA Hazard Ratings:** Health- 1, **Fire- 0**, **Reac. - 0**

II. **Hazardous Components:**

<u>Hazardous Ingredients</u>	<u>CAS or UN number</u>	<u>TLV (mg/m³)</u>	<u>LD50/LC50</u>
None	-	-	-

III. **Physical Data:**
Appearance and Odor- Dark, thin liquid with little or no scent.
Boiling Point- 100°C (212°F)
Density (g/ml)- For liquids and solids, density equals specific gravity
Evaporation Rate (Butyl Acetate = 1)- As water
Melting Point- 0°C (32°F) **Odor Threshold-** Not available
Percent Volatile (v/v)- Not available **Physical State-** Liquid
pH- 7-8.5 **Solubility in Water-** Complete
Specific Gravity (Water = 1)- 1.05 **Vapor Density (Air=1)-** As water
Vapor Pressure- As water

IV. **Fire and Explosion Data:**
Flammability (Flashpoint below 37.8° C)- No
Flammable Limits: Lower- None, Upper- None **Explosion Data-** Not available
Flash Point- None **Autoignition Temperature-** None
Extinguishing Media: -Water Spray/Fog
Special Fire Fighting Procedures- Not available

V. **Health Hazard Data:**
Primary Routes of entry: Skin, Inhalation
Eye- Produces stinging sensation to the cornea. No damage expected.
Skin- Can cause irritation, dermatitis for people with hypersensitive skin. Staining occurs.
Inhalation- Minimal exposure with no adverse effects expected.
Ingestion- May cause nausea and vomiting.

VI. **First Aid Data:**
Eyes- Flush eyes for at least 15 minutes. Consult a physician if irritation persists
Skin- Wash off with warm soap and water. Consult a physician if irritation persists
Inhalation- Remove to fresh air if effects occur. Consult a physician if irritation persists.
Ingestion- If swallowed dilute with water and induce vomiting if person is conscious.
Seek medical attention immediately.

VII. **Corrosivity and Reactivity Data:**
Stability- Stable
Conditions to Avoid- Do not evaporate or overheat as this can cause boil over. Avoid oxidizers.
Decomposition Products- May produce carbon dioxide and carbon monoxide.

VIII. **Chemical Handling:**
Polymerization- No
Handling and Storage- Keep from freezing. If products received in frozen condition, place in warm water for 15 minutes.
Leaks or Spills- Use dry absorbent material to contain spill. Dispose of material in an approved container.
Waste Disposal Method- Material is biodegradable. Check with local ordinances before discharging into local wastewater system. Information on biodegradability may be obtained from Inland.

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- IX. Personal Protection Information:**
Eye- Use goggles for splash protection. **Respiratory-** None normally required.
Gloves- Chemical resistant if person is sensitive to material.
Footwear- None normally required. **Ventilation-** Local
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:** Exposure to hot liquids can cause thermal burns.
- XI. Toxicological Data:**
Carcinogenicity- Not Available **Teratogenicity-** Not available
Mutagenicity- Not available **Reproductive Effects-** Not available
TLV (mg/m³)- 10mg/m³ (ACGIH) **LD50-** > 2000 mg/kg bodyweight (oral rat)
LC50- Not known
- XII. Regulatory Information:**
Sara Hazard Category- None
Canadian Right To Know- Not a "controlled product" under WHMIS.