

Issue Date: 19-Apr-2013

Revision Date: 02-Mar-2017

Version Number: 1.1

1. Identification

Product Identifiers

Product Name: Bright Dyes® Black E-HVL Liquid

Product Number: E-506110

Recommended Use & Restrictions on Use

Aluminum dye

Manufacturer/Supplier

Kingscote Chemicals, Inc.
3334 South Tech Blvd.
Miamisburg, OH 45342
U.S.A.

Emergency Telephone Number

Company Telephone Number: (937) 886-9100

Emergency Telephone (24 hr): INFOTRAC (800) 535-5053 (North America)
+1-352-323-3500 (International)

2. Hazards Identification

Classification

| | |
|------------|---|
| Category 4 | Acute toxicity - Oral |
| Category 4 | Acute toxicity – Inhalation (Dusts/Mists) |

Signal Word

Warning

Hazard Statements

Harmful if swallowed

Harmful if inhaled



Precautionary Statements

Wash face, hands, and any exposed skin thoroughly after handling

Do not eat, drink, or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Get medical advice / attention

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Do not induce vomiting

Dispose of contents/container to an approved waste disposal plant

Hazard Not Otherwise Classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

| Chemical Name | CAS # | Weight % |
|-------------------------|------------|----------|
| Chromium(III) Compounds | 16065-83-1 | <4 |
| Chromium | 7440-47-3 | <3 |

**If Chemical Name/CAS # is "proprietary" and/or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.*

4. First-Aid Measures

First-Aid Measures

| | |
|---------------------|---|
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical advice/attention if irritation occurs. |
| Skin Contact | Wash with soap and water. Get medical advice/attention if irritation occurs. |
| Inhalation | Remove to fresh air. If breathing is difficult, administer oxygen; seek medical attention immediately. |
| Ingestion | Rinse mouth. DO NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention if large quantities were ingested or if nausea occurs. |

Most Important Symptoms and Effects

| | |
|-----------------|---|
| Symptoms | Chromium and certain chromium compounds have been reported to cause damage to the lungs, resulting in cumulative damage. Dermatitis has been reported from repeated, prolonged contact with chromium compounds. |
|-----------------|---|

Indication of Any Immediate Medical Attention and Special Treatment Needed

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

5. Fire-Fighting Measures

Suitable Extinguishing Media

Water. Foam. Carbon dioxide (CO₂). Dry chemical.

Unsuitable Extinguishing Media

Not determined

Specific Hazards Arising from the Chemical

Burning may produce oxides of carbon, nitrogen (NO_x), and sulfur.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as recommended in Section 8.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12 and Section 13.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Collect into suitable, properly labeled container for recovery or disposal.

7. Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practices. Use personal protection recommended in Section 8. Avoid contact with skin, eyes, or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Conditions for Safe Storage, Including Incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry, and well-ventilated area. Keep/store only in original container. Do not reuse container.

Incompatible Materials Strong oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|-------------------------------|-------------------------------|---|
| Chromium (III) Compounds 16065-83-1 | TWA: 0.5 mg/m ³ Cr | TWA: 0.5 mg/m ³ Cr | IDLH: 25 mg/m ³ Cr(III) TWA: 0.5 mg/m ³ Cr |
| Chromium 7440-47-3 | TWA: 0.5 mg/m ³ | TWA: 1 mg/m ³ | IDLH: 250 mg/m ³ TWA: 0.5 mg/m ³ |

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual Protection Measures, Such as Personal Protective Equipment:

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|-----------------------------------|---|
| Eye/Face Protection | Use chemical splash goggles. |
| Skin & Body Protection | Rubber gloves. Suitable protective clothing. |
| Respiratory Protection | Wear an appropriate NIOSH/MSHA approved respirator. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practices. |

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| 9. Physical and Chemical Properties |
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Information on Basic Physical and Chemical Properties

| | | | |
|-----------------------|--------------|-----------------------|----------------|
| Physical State | Liquid | Odor | None apparent |
| Appearance | Black liquid | Odor Threshold | Not determined |
| Color | Black | | |

| Property | Values |
|----------------------------------|------------------|
| pH | 4.5 – 5.5 |
| Melting/Freezing Point | Not applicable |
| Boiling Point/Range | Not applicable |
| Flash Point | Not applicable |
| Evaporation Rate | Not applicable |
| Flammability (solid, gas) | Not applicable |
| Upper Flammability Limits | Not applicable |
| Lower Flammability Limits | Not applicable |
| Vapor Pressure | Not applicable |
| Vapor Density | Not applicable |
| Relative Density | Not applicable |
| Specific Gravity | Not applicable |
| Solubility | Soluble in water |
| Partition Coefficient | Not determined |
| Auto-ignition Temperature | Not determined |
| Decomposition Temperature | Not determined |
| Viscosity | Not determined |

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| 10. Stability and Reactivity |
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Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep separated from incompatible substances. Keep out of reach of children.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon, nitrogen (NO_x), and sulfur.

11: Toxicological Information

Information on Likely Routes of Exposure

| | |
|---------------------|--------------------------|
| Inhalation | Harmful if inhaled. |
| Ingestion | Harmful if swallowed. |
| Skin Contact | Avoid contact with skin. |
| Eye Contact | Avoid contact with eyes. |

Delayed, Immediate, and Chronic Effects from Short- and Long-Term Exposure

May cause an allergic skin reaction.

Numerical Measures of Toxicity

Not determined

Symptoms Associated with Exposure

See Section 4 of this SDS for symptoms.

Carcinogenicity

| Chemical Name | NTP | ACGIH | IARC | OSHA |
|--|-----|-------|---------|------|
| Chromium (III) Compounds 16065-83-1 | - | - | Group 3 | - |
| Chromium 7440-47-3 | - | - | Group 3 | - |

Group 3 IARC components are "not classifiable as human carcinogens".

12. Ecological Information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Component Information

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|--|----------------------|---|---|
| Chromium (III) Compounds 16065-83-1 | - | 4.4: 96 h Oncorhynchus mykiss mg/L LC50 5.07: 96 h Pimephales promelas mg/L LC50 | 2: 96 h water flea mg/L EC 50 168: 96 h water flea mg/L EC50 |

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Other Adverse Effects

Not determined

13. Disposal Considerations

Waste Disposal Methods

Dispose of in accordance with federal, state, and local regulations.

Contaminated Packaging

Do not re-use empty containers. Dispose of containers in accordance with federal, state, and local regulations.

US EPA Waste Number

| Chemical Name | RCRA | RCRA – Basis for Listing | RCRA – D Series Wastes | RCRA – U Series Wastes |
|-----------------------|------|---|---------------------------|------------------------|
| Chromium 7440-47-3 | - | Included in waste streams: F032, F034, F035, F037, F038, F039 | 5.0 mg/L regulatory level | - |

California Hazardous Waste Status

| Chemical Name | California Hazardous Waste Status |
|--|-----------------------------------|
| Chromium (III) Compounds 16065-83-1 | Toxic Corrosive Ignitable |
| Chromium 7440-47-3 | Toxic Corrosive Ignitable |

14. Transport Information

Note

See current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

| | |
|-------------|--|
| DOT | Not regulated |
| IATA | Not regulated |
| IMDG | This material may meet the definition of a marine pollutant. |

15: Regulatory Information

International Inventories

Toxic Substances Control Act Listed

U.S. Federal RegulationsCERCLA

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|-----------------------|--------------------------|----------------|--|
| Chromium 7440-47-3 | 5000 lb 10 lb | - | RQ 5000 lb final RQ RQ 2270 kg final RQ RQ 10 lb final RQ RQ 4.54 kg final RQ |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

SARA 313

| Chemical Name | CAS # | Weight % | SARA 313 – Threshold Values % |
|-------------------------|------------|----------|-------------------------------|
| Chromium(III) Compounds | 16065-83-1 | <4 | 1.0 |
| Chromium | 7440-47-3 | <3 | 1.0 |

CWA (Clean Water Act)

| Chemical Name | CWA – Reportable Quantities | CWA – Toxic Pollutants | CWA – Priority Pollutants | CWA – Hazardous Substances |
|---------------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Chromium(III) Compounds 16065-83-1 | - | X | - | - |
| Chromium 7440-47-3 | - | X | X | - |

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------------|------------|---------------|--------------|
| Chromium(III) Compounds 16065-83-1 | X | - | X |
| Chromium 7440-47-3 | X | X | X |

16: Other Information**HMIS**

| Health Hazards | Flammability | Instability | Special Hazards |
|----------------|--------------|-------------|-----------------|
| 1 | 1 | 0 | Not determined |

NFPA

| Health Hazards | Flammability | Physical Hazards | Personal Protection |
|----------------|--------------|------------------|---------------------|
| 1 | 1 | 0 | B |

| | |
|----------------------|----------------|
| Issue Date | 19-Apr-2013 |
| Revision Date | 02-Mar-2017 |
| Revision Note | Content Review |

Disclaimer

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End of Safety Data Sheet