

Innotech Liquid Dye Concentrate

SDS Number:

Revision Date: 9/19/12

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

ChromaScape
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 Twinsburg, OH 44087

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Phone: Chemtrec:1-800-424-9300

Product Identifier: Innotech Liquid Dye Concentrate
Revision Date: 9/19/12
Version: 1.0
CAS Number: Mixture
Chemical Family: Liquid Dye
Product Use: Dye

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

- Health, Skin corrosion/irritation, 1 A
- Health, Acute toxicity, 4 Oral
- Health, Skin corrosion/irritation, 2
- Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

- H314 - Causes severe skin burns and eye damage
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation

GHS Precautionary Statements:

- P102 - Keep out of reach of children.
- P264 - Wash _ thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P234 - Keep only in original container.
- P271 - Use only outdoors or in a well-ventilated area.
- P285 - In case of inadequate ventilation wear respiratory protection.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302+352 - IF ON SKIN: Wash with soap and water.
- P332+313 - If skin irritation occurs: Get medical advice/attention.
- P363 - Wash contaminated clothing before reuse.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P301 - IF SWALLOWED:
- P313 - Get medical advice/attention.
- P331 - Do NOT induce vomiting.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

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Inhalation:

Primary Entry Routes: Inhalation, ingestion, skin contact, eye contact

Target Organs or Systems: Contains material which may cause damage to upper respiratory tract, mucous membranes, eyes, nose, sinus, etc. if comes in contact.

Signs and Symptoms of Exposure (Acute Effects):

Inhalation: Cough, sore throat

Ingestion: Burning sensation

Skin Contact: Dry skin, redness and irritation

Eye Contact: Redness, burning sensation and irritation

Signs and Symptoms of Exposure (Chronic Effects): Repeated or prolonged contact with skin may cause dermatitis. Repeated or prolonged contact may cause skin sensitization.

Aggravation of Pre-Existing Conditions: Pre-existing conditions involving any of the above mentioned target organs or systems may be aggravated by this product.

3 COMPOSITION/INFORMATION OF INGREDIENTS

4 FIRST AID MEASURES

Skin Contact:

Eye Contact:

Emergency First Aid Procedures

Skin: Remove contaminated clothing and wash the affected area with soap and water. Call a physician if skin irritation persists.

Eyes: Immediately flush with plenty of water. After initial rinsing, remove contacts (if present) and continue rinsing for 15 more minutes. If symptoms persist, call a physician.

Inhalation: Remove to fresh air. Administer artificial respiration if necessary. Call a physician if symptoms persist.

Ingestion: DO NOT induce vomiting. Rinse mouth thoroughly with water. Drink plenty of water dilute the material. Never give anything by mouth to an unconscious person. Consult a physician.

5 FIRE FIGHTING MEASURES

Extinguishing Media: Dry chemical, alcohol-resistant foam, water spray, or CO2

Flammable Limits (% volume in air for solvents): LEL: Not Determined UEL: Not Determined

Special Fire Fighting Procedures: Keep material and container away from sources of ignition. Use SCBA when fighting fire.

6 ACCIDENTAL RELEASE MEASURES

Small Spills: Spills may be absorbed using inert materials and shoveled into properly-labeled containers. Take precautionary measures against static discharge. Prevent runoff from entering surface waters. Notify proper authorities if runoff should occur.

Large Spill Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Spills may be absorbed using inert materials and shoveled into properly-labeled containers. Take precautionary measures against static discharge. Prevent runoff from entering surface waters. Notify proper authorities if runoff should occur.

Disposal Regulatory Requirements: Follow applicable Federal, state, and local regulations.

Container Cleaning and Disposal: Containers must not be washed out or used for other purposes. Do not weld or flame cut empty

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containers.

Waste Codes: Black Orchid, Pineapple, Red Berry, Roasted Pepper, Rootbeer, & Violet colors carry D001 & D007 codes. Blueberry, Cola, Dandelion, Malt Brown, Maple Syrup, Thistle Green, Blue Poppy, & Warm Honey colors carry D001 code. Pomegranate, Rhubarb, & Sweet Potato colors carry D007 code.

7 HANDLING AND STORAGE

Handling Precautions:

Normal Handling: Keep away from heat or ignition sources. Use only in well ventilated areas. Never pierce, saw, cut, grind, or weld empty containers.

Storage: Store material in its original container. Keep containers tightly closed when not in use.

Waste Disposal Method: Dispose of material in accordance with federal, state, and local guidelines.

Special Precautions: Avoid breathing mist. Avoid freezing.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.m.

Personal Protective Equipment: Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an OSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contaminations, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

ProtectiveClothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

Eye Protection: Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance: Colored liquid
Odor: Glycol Ether
Odor Threshold: No data available
pH: 6 - 10
Melting Point: Not determined
Freezing Point: <32° F
Boiling Point: 215° F (102 °C)
Flash Point:

Black Orchid: 110° F	Blue Poppy: 150° F	Blueberry: 120° F	Cola: 126° F
Dandelion: 126° F	Malt Brown: 126° F	Maple Syrup: 126° F	Pineapple: 116° F
Pomegranate: 150° F	Red Berry: 125° F	Rhubarb: 150° F	Roasted Pepper: 135° F
Rootbeer: 135° F	Sweet Potato: 150° F	Thistle Green: 129° F	Violet: 150° F

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Warm Honey: 150° F

Evaporation Rate: Not determined
Flammability (solid, gas): Combustible liquid
Upper/lower Flammability: N/A
Vapor Pressure: Not determined
Vapor Density: Not determined
Relative Density: 1.01-1.11
Water Solubility: 100%
Partition Coefficient: No data available
Auto-ignition Temperature: N/A
Decomposition temperature: Not determined
Viscosity: Not determined
Specific Gravity (H2O=1, at 4 °C): 1.01-1.11

10 STABILITY AND REACTIVITY

Chemical Stability: Reactivity: Stable under normal conditions.
 Conditions to avoid: Heat, open flame, reactive metals, and strong oxidizers.
 Incompatibility (Materials to Avoid): None known.
 Hazardous Decomposition (Byproducts): May emit toxic fumes under fire conditions.
 Hazardous Polymerization: Will not occur.

Hazardous Decomposition (Byproducts): Thermal oxidative decomposition can produce toxic and hazardous gases including fumes of hydrogen chloride.
 Hazardous Polymerization: Hazardous polymerization cannot occur under normal temperatures and pressures.

11 TOXICOLOGICAL INFORMATION

Routes of Exposure: Inhalation, ingestion, eyes, and skin.

Acute Toxicity Estimates (ATE):

Black Orchid:	LC50 (inhl) 25.3 mg/m3 LD50 (oral) 6250 mg/kg LD50 (skin) 5128 mg/kg	Red Berry:	LC50 (inhl) 33.1 mg/m3 LD50 (oral) 8197 mg/kg LD50 (skin) 5435 mg/kg
Blue Poppy:	LC50 (inhl) 26.8 mg/m3 LD50 (oral) 5181 mg/kg LD50 (skin) 3247 mg/kg	Rhubarb:	LC50 (inhl) No Data Available LD50 (oral) 3876 mg/kg LD50 (skin) 2994 mg/kg
Blueberry:	LC50 (inhl) 26.8 mg/m3 LD50 (oral) 6289 mg/kg LD50 (skin) 5236 mg/kg	Roasted Pepper:	LC50 (inhl) 28.8 mg/m3 LD50 (oral) 6024 mg/kg LD50 (skin) 4808 mg/kg
Cola:	LC50 (inhl) 29.7 mg/m3 LD50 (oral) 5102 mg/kg LD50 (skin) 3509 mg/kg	Rootbeer:	LC50 (inhl) 28.0 mg/m3 LD50 (oral) 5714 mg/kg LD50 (skin) 4695 mg/kg
Dandelion:	LC50 (inhl) 32.1 mg/m3 LD50 (oral) 6579 mg/kg LD50 (skin) 4673 mg/kg	Sweet Potato:	LC50 (inhl) 33.9 mg/m3 LD50 (oral) 5780 mg/kg LD50 (skin) 4717 mg/kg
Malt Brown:	LC50 (inhl) 28.5 mg/m3 LD50 (oral) 5376 mg/kg LD50 (skin) 4464 mg/kg	Thistle Green:	LC50 (inhl) 30.2 mg/m3 LD50 (oral) 5882 mg/kg LD50 (skin) 4717 mg/kg
Maple Syrup:	LC50 (inhl) 28.1 mg/m3 LD50 (oral) 5747 mg/kg LD50 (skin) 4717 mg/kg	Violet:	LC50 (inhl) 30.9 mg/m3 LD50 (oral) 6993 mg/kg LD50 (skin) 5128 mg/kg
Pineapple:	LC50 (inhl) 27.7 mg/m3	Warm Honey:	LC50 (inhl) 28.0 mg/m3

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LD50 (oral) 5587 mg/kg
 LD50 (skin) 4651 mg/kg

LD50 (oral) 5650 mg/kg
 LD50 (skin) 4673 mg/kg

Pomegranate: LC50 (inhl) 39.4 mg/m3
 LD50 (oral) 4950 mg/kg
 LD50 (skin) 3289 mg/kg

Skin Contact: May cause skin irritation. Prolonged or repeated exposure can defat the skin.

Eye Contact: Category 2 Eye Irritants will cause serious eye irritation. Category 1 Eye Irritants will cause serious eye damage.

Inhalation: May depress the central nervous system, causing dizziness and/or drowsiness.

Ingestion: May cause irritation of the skin inside the mouth, nausea, or stomach cramps/discomfort.

Carcinogen: Black Orchid, Pineapple, Red Berry, Roasted Pepper, Rootbeer, Sweet Potato, and Violet colors contain trivalent chromium compounds in solution. Trivalent chromium is IARC Group 3 - which is not classifiable as to its carcinogenicity to humans.

Aggravation of Pre-existing Conditions: Inhalation of fumes may aggravate existing lung problems.

12 ECOLOGICAL INFORMATION

Aquatic Toxicity (calculated):

Black Orchid:	LC50 (fish) 44.8 mg/L LC50 (inv.) 2941 mg/L EC50 (plants) No Data Available	Red Berry:	LC50 (fish) 3584 mg/L LC50 (inv.) No Data Available EC 50 (plants) No Data Available
Blue Poppy:	LC50 (fish) 1923 mg/L LC50 (inv.) 3734 mg/L EC50 (plants) 149.6 mg/L	Rhubarb:	LC50 (fish) 1350 mg/L LC50 (inv.) 2262 mg/L EC50 (plants) No Data Available
Blueberry:	LC50 (fish) 29.9 mg/L LC50 (inv.) 4348 mg/L EC50 (plants) No Data Available	Roasted Pepper:	LC50 (fish) 3584 mg/L LC50 (inv.) No Data Available EC50 (plants) No Data Available
Cola:	LC50 (fish) 2857 mg/L LC50 (inv.) No Data Available EC50 (plants) No Data Available	Rootbeer:	LC50 (fish) 3584 mg/L LC50 (inv.) No Data Available EC50 (plants) No Data Available
Dandelion:	LC50 (fish) 2809 mg/L LC50 (inv.) No Data Available EC50 (plants) No Data Available	Sweet Potato:	LC50 (fish) 3584 mg/L LC50 (inv.) 1786 mg/L EC50 (plants) No Data Available
Malt Brown:	LC50 (fish) 3205 mg/L LC50 (inv.) No Data Available EC50 (plants) No Data Available	Thistle Green:	LC50 (fish) 211.4 mg/L LC50 (inv.) 3322 mg/L EC50 (plants) No Data Available
Maple Syrup:	LC50 (fish) 3584 mg/L LC50 (inv.) No Data Available EC50 (plants) No Data Available	Violet:	LC50 (fish) 3584 mg/L LC50 (inv.) No Data Available EC50 (plants) No Data Available
Pineapple:	LC50 (fish) 3584 mg/L LC50 (inv.) No Data Available EC50 (plants) No Data Available	Warm Honey:	LC50 (fish) 3584 mg/L LC50 (inv.) No Data Available EC50 (plants) No Data Available
Pomegranate:	LC50 (fish) 209.7 mg/L LC50 (inv.) 2439 mg/L EC50 (plants) 141.4 mg/L		

Persistence and Degradability: No data available

Bioaccumulation Potential: Potential for bioaccumulation of metals

Mobility in the Soil: Highly mobile in wet soil

Other Adverse Effects: None

13 DISPOSAL CONSIDERATIONS

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Waste Disposal Method: Dispose of material in accordance with all Federal, State, and Local regulations.

14 TRANSPORT INFORMATION

Not classified

US DOT Domestic Ground:

Proper Shipping Name: Non-Regulated Material

Hazard Class: N/A

UN: N/A

Packing Group: N/A

Marine Pollutant: No.

IATA:

Proper Shipping Name:

Paint Related Material (Black Orchid, Blueberry, Cola, Dandelion, Malt Brown, Maple Syrup, Pineapple, Red Berry, Roasted Pepper, Rootbeer, & Thistle Green colors)

Non-Regulated Material (Blue Poppy, Pomegranate, Rhubarb, Sweet Potato, Violet, & Warm Honey colors)

Hazard Class: 3 (Black Orchid, Blueberry, Cola, Dandelion, Malt Brown, Maple Syrup, Pineapple, Red Berry, Roasted Pepper, Rootbeer, & Thistle Green colors)

N/A (Blue Poppy, Pomegranate, Rhubarb, Sweet Potato, Violet, & Warm Honey colors)

UN: 1263 (Black Orchid, Blueberry, Cola, Dandelion, Malt Brown, Maple Syrup, Pineapple, Red Berry, Roasted Pepper, Rootbeer, & Thistle Green colors)

N/A (Blue Poppy, Pomegranate, Rhubarb, Sweet Potato, Violet, & Warm Honey colors)

Packing Group: III (Black Orchid, Blueberry, Cola, Dandelion, Malt Brown, Maple Syrup, Pineapple, Red Berry, Roasted Pepper, Rootbeer, & Thistle Green colors)

N/A (Blue Poppy, Pomegranate, Rhubarb, Sweet Potato, Violet, & Warm Honey colors)

IMDG:

Proper Shipping Name:

Paint Related Material (Black Orchid, Blueberry, Cola, Dandelion, Malt Brown, Maple Syrup, Pineapple, Red Berry, Roasted Pepper, Rootbeer, & Thistle Green colors)

Non-Regulated Material (Blue Poppy, Pomegranate, Rhubarb, Sweet Potato, Violet, & Warm Honey colors)

Hazard Class: 3 (Black Orchid, Blueberry, Cola, Dandelion, Malt Brown, Maple Syrup, Pineapple, Red Berry, Roasted Pepper, Rootbeer, & Thistle Green colors)

N/A (Blue Poppy, Pomegranate, Rhubarb, Sweet Potato, Violet, & Warm Honey colors)

UN: 1263 (Black Orchid, Blueberry, Cola, Dandelion, Malt Brown, Maple Syrup, Pineapple, Red Berry, Roasted Pepper, Rootbeer, & Thistle Green colors)

N/A (Blue Poppy, Pomegranate, Rhubarb, Sweet Potato, Violet, & Warm Honey colors)

Packing Group: III (Black Orchid, Blueberry, Cola, Dandelion, Malt Brown, Maple Syrup, Pineapple, Red Berry, Roasted Pepper, Rootbeer, & Thistle Green colors)

N/A (Blue Poppy, Pomegranate, Rhubarb, Sweet Potato, Violet, & Warm Honey colors)

15 REGULATORY INFORMATION

RCRA Hazardous Waste Number (40 CFR 261.33): Possibly D002 or D007

<u>Color</u>	<u>SARA 313</u>	<u>SARA311/312</u>
Black Orchid	Yes (CAS 34590-94-8, Proprietary Glycol Ether)	Yes (Acute, Fire)
Blue Poppy	Yes (CAS 112-34-5, Proprietary Glycol Ether)	Yes (Acute, Fire)
Blueberry	Yes (Proprietary Glycol Ether)	Yes (Acute, Fire)
Cola	Yes (CAS 1569-02-4, 2807-30-9, 112-34-5, 34590-94-8, Proprietary Glycol Ether)	Yes (Acute, Fire)
Dandelion	Yes (CAS 1569-02-4, 112-34-5, Proprietary Glycol Ether)	Yes (Acute, Fire)
Malt Brown	Yes (CAS 1569-02-4, 112-34-5, 34590-94-8, Proprietary Glycol Ether)	Yes (Acute, Fire)
Maple Syrup	Yes (CAS 1569-02-4, Proprietary Glycol Ether)	Yes (Acute, Fire)
Pineapple	Yes (CAS 1569-02-4, Proprietary Glycol Ether)	Yes (Acute, Fire)
Pomegranate	Yes (CAS 112-34-5, 1569-02-4, Proprietary Glycol Ether)	Yes (Acute, Fire)
Red Berry	Yes (CAS 1569-02-4, Proprietary Glycol Ether)	Yes (Acute, Fire)

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Rhubarb	Yes (CAS 111-34-5, Proprietary Glycol Ether)	Yes (Acute, Fire)
Roasted Pepper	Yes (CAS 1569-02-4, Proprietary Glycol Ether)	Yes (Acute, Fire)
Rootbeer	Yes (CAS 1569-02-4, Proprietary Glycol Ether)	Yes (Acute, Fire)
Sweet Potato	Yes (CAS 34590-94-8, 1569-02-4, Proprietary Glycol Ether)	Yes (Acute, Fire)
Thistle Green	Yes (CAS 1569-02-4, 112-34-5, Proprietary Glycol Ether)	Yes (Acute, Fire)
Violet	Yes (CAS 1569-02-4, Proprietary Glycol Ether)	Yes (Acute, Fire)
Warm Honey	Yes (CAS 1569-02-4, 34590-94-8, Proprietary Glycol Ether)	Yes (Acute, Fire)

State Regulations:

<u>Component:</u>	<u>CAS</u>	<u>Massachusetts</u>	<u>New Jersey</u>	<u>Pennsylvania</u>	<u>Illinois</u>
Glycol Ether PM Alcohol	107-98-2	Yes Yes	Yes	No	
Glycol Ether DPM	34590-94-8	Yes	Yes	Yes	Yes
Dye Molecule	Proprietary	No	Yes	Yes	Yes
Glycol Ether	Proprietary	Yes	Yes	Yes	Yes
Glycol Ether DB	112-34-5	No Yes	Yes	Yes	
Propylene Glycol	57-55-6	No	Yes	Yes	No
2-Propoxyethanol	2807-30-9	No	Yes	Yes	Yes
Ethyl Lactate	97-64-3	Yes	Yes	Yes	No

California Prop. 65: None of these products contain chemical(s) known to the state of California to cause cancer and/or birth defects.

16 OTHER INFORMATION

The information on this SDS is provided in good faith in the interest of product safety and believed to be accurate to the best of our knowledge. However, ChromaScape makes no guarantee and assumes no liability for the data contained. Users should conduct their own research regarding suitability for their purposes. Nothing contained in this SDS should be misconstrued as permission to violate any regulation. End users should follow all local, state, national and international regulations as apply.

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