### SAFETY DATA SHEET

### LUMICOLOR

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: LUMICOLOR

Product Code(s): LC-B311-GR, LC-B311-BU, LC-B311-AQ, LC-B311-WH

LC-B311-OR, LC-B311-PK, LC-B311-YL, LC-B311-VL

**Recommended Use:** As a component of an electroluminescent coating system

Uses Advised Against: Other uses other than recommended

**Supplier:** Darkside Scientific

650 W. Smith Road C18 Medina, OH 44256

**Telephone Number:** 1-855-465-8645

**Emergency Contact:** Infotrac

Emergency Telephone 1-352-323-3500

Number:

Hours of Operation: 24 Hours Per Day / 7 Days Per Week

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910 (OSHA Hazard Communication Standard).

Classification(s): Flammable Liquid 2 STOT-SE 2 – Damage to organs

Eye Damage 1 STOT-SE 3 – Drowsiness/Dizziness

Eye Irritant 2 STOT RE 3 – Respiratory

Skin Irritant 2

Acute Toxicity 3 - Inhalation

Acute Toxicity 3 - Dermal

Acute Toxicity 3 - Oral

Reproductive 2

Skin Sensitizer 1

Skin Corrosive 1B

Carcinogen 2

Carcinogen 1B

Aspiration Toxicity 1

GHS label elements, including precautionary statements in accordance with 29 CFR 1910 (OSHA Hazard Communication Standard).

Signal Word: DANGER

Pictogram(s):









**Hazard Statements:** 

**H225** Highly flammable liquid and vapor

H301 Toxic if swallowed

H304 May be fatal if swallowed and enters airways

H311 Toxic in contact with skin

H314 Causes severe skin burns and eve damage H315 Causes skin irritation May cause an allergic skin reaction H317 H318 Causes serious eve damage H331 Toxic if inhaled H335 May cause respiratory irritation H336 May causes drowsiness or dizziness H351 Suspected of causing cancer H370 Causes damage to organs

### **Precautionary Statements:**

P202 Do not handle until all safety precautions have been read and understood P210 Keep away from heat, sparks, open flames and hot surfaces. NO SMOKING. Keep away from any possible contact with water, because of violent reaction and **P223** possible flash fire P233 Keep container tightly closed P240 Ground and bond container and receiving equipment P241 Use explosion-proof electrical, ventilating and light equipment P242 Use only non-sparking tools Take precautionary measures against static discharge **P243** P260 Do not breathe dust, fumes, gas, mist, vapors or spray P264 Wash hands and any exposed body parts thoroughly after handling **P270** Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well-ventilated area Contaminated work clothing should not be allowed out of the workplace **P272** P280 Wear protective gloves, protective clothing, eye protection and face protection P312 Call a POISON CENTER or doctor/physician if you feel unwell P321 Specific treatment: See first aid section on the container label. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse P303 + P361 + P353 skin with water/shower P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing IF exposed: Call a POISON CENTER or doctor/physician P307 + P311 P332 + P313 If skin irritation occurs: Get medical advice/attention P337 + P313 If eye irritation persists: Get medical advice/attention P370 + P378 In case of fire: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents for extinction P405 Store locked up P403 + P235 Store in a well-ventilated place. Keep cool P501 Dispose of contents/container in accordance with local, regional, national and

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

international regulations

**Composition of Product:** Mixture

**CAS#** Does not apply to mixtures.

INGREDIENTS	CAS#	% m/m
n-butyl acetate	123-86-4	30-60%
xylene	1330-20-7	30-60%
2-methoxy-1-methylethyl acetate	108-65-6	<20%
toluene	108-88-3	<5%
solvent naphtha	64742-95-6	<10%
ethylbenzene	100-41-4	<25%
iso-butanol	78-83-1	<5%
Zinc orthsilicate: manganese	68611-47-2	<5%

2-butoxyethyl acetate	112-07-2	≤1.4%
butylated polyoxymethylene urea	68002-19-7	≤1.5%

### **SECTION 4. FIRST AID MEASURES**

Inhalation:	Remove victim to fresh air and keep in a ret position comfortable for breathing.
Skin:	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
Eyes:	Rinse cautiously with water for several minutes.  Remove contact lenses if present and easy to do so – continue rinsing.  If eye irritation persists: Get medical advice/attention
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. DO NOT induce vomiting.

## **SECTION 5. FIRE FIGHTING MEASURES**

Suitable extinguishing media:	Alcohol resistant foam, carbon dioxide or dry chemical extinguishing agents.
UN-Suitable extinguishing media:	Water jets
Specific hazards arising from the chemical:	Keep away from any possible contact with water because of violent reaction and possible flash fire. Highly flammable with toxic fumes. Reacts violently – is explosive.
Special protective actions for firefighters:	Wear protective gloves, protective clothing, eye protection, and face protection Wear respirator. Prevent, by any means, spillage from entering drains or water courses. Cool containers to prevent explosion.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Wear protective gloves, protective clothing, eye protection, and face protection

Wear respirator.

Keep unprotected persons away.

Remove ignition sources; use non-sparking tools.

Ventilate area.

Contain and collect - Remove with inert absorbent - NOT sawdust.

DO NOT incinerate closed containers.

Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

Prevent, by any means, spillage from entering drains or water courses.

## SECTION 7. HANDLING AND STORAGE

Storage:	Keep away from heat, sparks, open flames and hot surfaces. Keep away from any contact with water. Keep containers tightly closed. Ground and bond container. Store locked up. Store in a well-ventilated area. Keep cool.
Handling:	Do not handle until all safety precautions have been read and understood.

Keep away from heat, sparks, open flames and hot surfaces.

Keep away from any contact with water.

Keep containers tightly closed.

Ground and bond container.

Use explosion-proof electrical, ventilating and light equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust, fumes, gas, mist, vapors or spray.

Wash hands and any exposed body parts thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves, protective clothing, eye and face protection.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	Exposure limits
n-butyl acetate	OSHA PEL 1989 (United States, 3/1989).  TWA: 150 ppm 8 hours.  TWA: 710 mg/m³ 8 hours.  STEL: 200 ppm 15 minutes.  STEL: 950 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2020).  TWA: 150 ppm 10 hours.  TWA: 710 mg/m³ 10 hours.  STEL: 200 ppm 15 minutes.  STEL: 950 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 150 ppm 8 hours.  TWA: 710 mg/m³ 8 hours.  ACGIH TLV (United States, 1/2021).  STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
xylene	ACGIH TLV (United States, 1/2021).  TWA: 100 ppm 8 hours.  TWA: 434 mg/m³ 8 hours.  STEL: 150 ppm 15 minutes.  STEL: 651 mg/m³ 15 minutes.  OSHA PEL 1989 (United States, 3/1989).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.  STEL: 150 ppm 15 minutes.  STEL: 655 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.
toluene	OSHA PEL 1989 (United States, 3/1989).  TWA: 100 ppm 8 hours.  TWA: 375 mg/m³ 8 hours.  STEL: 150 ppm 15 minutes.  STEL: 560 mg/m³ 15 minutes.  OSHA PEL Z2 (United States, 2/2013).  TWA: 200 ppm 8 hours.  CEIL: 300 ppm  AMP: 500 ppm 10 minutes.

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	NIOSH REL (United States, 10/2020).  TWA: 100 ppm 10 hours.  TWA: 375 mg/m³ 10 hours.  STEL: 150 ppm 15 minutes.  STEL: 560 mg/m³ 15 minutes.  ACGIH TLV (United States, 1/2021). Ototoxicant.  TWA: 20 ppm 8 hours.
Normal butyl alcohol	ACGIH TLV (United States, 1/2021).  TWA: 20 ppm 8 hours.  OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.  CEIL: 50 ppm  CEIL: 150 mg/m³  NIOSH REL (United States, 10/2020). Absorbed through skin.  CEIL: 50 ppm  CEIL: 50 ppm  CEIL: 150 mg/m³  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours. TWA: 300 mg/m³ 8 hours.
solvent naphtha (petroleum), light arom.	none
ethylbenzene	ACGIH TLV (United States, 1/2021).  TWA: 20 ppm 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.  STEL: 125 ppm 15 minutes.  STEL: 545 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2020).  TWA: 100 ppm 10 hours.  TWA: 435 mg/m³ 10 hours.  STEL: 125 ppm 15 minutes.  STEL: 545 mg/m³ 15 minutes.  STEL: 545 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours
iso-butanol	ACGIH TLV (United States, 1/2021).  TWA: 50 ppm 8 hours.  TWA: 152 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 50 ppm 8 hours.  TWA: 150 mg/m³ 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 50 ppm 10 hours.  TWA: 150 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 300 mg/m³ 8 hours.
2-methoxy-1-methylethyl acetate	OARS WEEL (United States, 1/2021). TWA: 50 ppm 8 hours.
Zinc orthsilicate: manganese	none
2-butoxyethyl acetate	NIOSH REL (United States, 10/2020). TWA: 5 ppm 10 hours.

	TWA: 33 mg/m³ 10 hours.  ACGIH TLV (United States, 1/2021).  TWA: 20 ppm 8 hours.
butylated polyoxymethylene urea	none

Engineering Controls:	Prevent build-up of vapors by supplying sufficient ventilation and cross-ventilation.  If the applicable Occupational Exposure Limits (OELs) may be exceeded, wear an appropriate NIOSH approved respirator.
Respiratory Protection:	A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's usage. A NIOSH approved air purifying respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.  Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in circumstances where an air purifying respirator may not be sufficient.
Eye Protection:	Use face shield and/or solvent resistant safety eyewear designed to protect against splash of liquids.
Hand Protection:	Use gloves to prevent skin contact. Use impervious gloves to prevent skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.
Other Protective Equipment:	Refer to environmental, health and safety manager for guidance regarding types of personal protective equipment and their operations.

Value

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Property** 

Appearance	Viscous Liquid
Odor	Pungent
pH	Not Available

<u>Odor</u>	Pungent
рН	Not Available
Boiling Point	>35°C
Melting Point	Not Available
Flash Point	<23°C
Explosive Properties	Not Available
Oxidizing Properties	Not Available
Vapor Pressure	Not Available
Density	8.453 lbs./gal
Water Solubility	Not Available
Fat Solubility	Not Available
Partition Coefficient	Not Available
Viscosity	Not Available
Vapor Density	Not Available
Evaporation Rate	Not Available
Auto Ignition Temperature	Not Available
L.E.L.	Not Available
U.E.L.	Not Available
% Non-Volatile	Not Available
Regulatory VOC	6.42 lbs./gal.
Actual VOC	6.42 lbs./gal.

# SECTION 10. STABILITY AND REACTIVITY

Stability Information:	Stable under normal conditions.
Conditions to Avoid:	Sparks, open flame, other ignition sources.
Chemical Incompatibility:	Explosives, toxic gases, oxidizing substances, organic peroxides, poisonous substances and infectious substances
Hazardous Decomposition Products:	Carbon dioxide, Carbon, monoxide and Nitrogen containing gases.

## SECTION 11. TOXICOLOGICAL INFORMATION

Hazardous Component	CAS#	LD50 Oral mg/kg	LD50 Skin mg/kg	LC50 Inhal/gas ppmV	LC50 Inhal/mist mg/lt
n-butyl acetate	123-86-4	14000 mg (rat)	>5000 mg (rabbit)	Not Available	Not Available
xylene	1330-20-7	4300 mg (rat)	5000 mg (rabbit)	Not Available	Not Available
2-methoxy-1-met hylethyl acetate	108-65-6	Not Available	Not Available	Not Available	Not Available
toluene	108-88-3	7000 mg (rat)	>2000 mg (rabbit)	Not Available	Not Available
solvent naphtha	64742-95-6	>5000 mg (rat)	Not Available	Not Available	Not Available
ethylbenzene	100-41-4	3500 mg (rat)	5000 mg (rabbit)	Not Available	Not Available
iso-butanol	78-83-1	2460 mg (rat)	Not Available	Not Available	Not Available
Zinc orthsilicate: manganese	68611-47-2	Not Available	Not Available	Not Available	Not Available
2-butoxyethyl acetate	112-07-2	2400 mg/kg (rat)	1500 mg/kg (rabbit)	Not Available	Not Available
butylated polyoxymethylen e urea	68002-19-7	Not Available	Not Available	Not Available	Not Available

## SECTION 12. ECOLOGICAL INFORMATION

May have short term environmental effects. Contain, monitor & remove.

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bio accumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

## Available ecological data of ingredients:

Hazardous Component	CAS#	Aquatic Toxicity
xylene	1330-20-7	LC50 goldfish = 13 mg/L 24 h LC50 rainbow trout = 13.5 mg/L 96 h EC50 daphnia magna = 3.82 mg/L 48 h
toluene	108-88-3	LC50 fathead minnow = 25mg/L 96 h LC50 rainbow trout = 24 mg/L 96 h LC50 bluegill = 24 mg/L 96 h EC50 water flea = 11.3 mg/L 48 h

### **SECTION 13. DISPOSAL INFORMATION**

Waste Description for Unused Product:	Spent or discarded material is a hazardous waste.		
Disposal Methods:	Information in this SDS is provided only as a guide. Consult with proper authority to determine proper waste disposal procedures. Clean up and dispose of waste and clean-up materials in accordance with all federal, state, and local environmental regulations.		

### **SECTION 14. TRANSPORT INFORMATION**

### **Department of Transportation (DOT)**

Shipping Name: PAINT or PAINT RELATED MATERIAL

IMO Class: 3 UN Number: UN1263

Packing Group:

Required Label(s): Flammable Liquid

**SECTION 15. REGULATORY INFORMATION** 



Toxic Substances Control Act (TSCA) Inventory Status:	All components of this product are listed on or exempt from listing on the TSCA inventory.
SARA 313 Reportable:	This product contains the following substances listed as toxic chemicals under 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA):
MSDS Reportable HAP(s)	None None
California Proposition 65	The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986 – Proposition 65. "WARNING: This product contains chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm."

### **SECTION 16. OTHER INFORMATION**

**SARA/CERCLA Section 302** 

SDS prepared 09/29/2022



**EUH066** Repeated exposure may causes skin dryness or cracking

N/A

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