#### SAFETY DATA SHEET

### **BACKPLANE**

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: BACKPLANE

Product Code: BP-B311

Recommended Use: As a component of an electroluminescent coating system

Uses Advised Against: 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 Number:** 1-352-323-3500

**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 Irritant

Skin Irritant 2 Skin Sensitizer 1
Acute Toxicity 3 - Inhalation Skin Corrosive 1B
Acute Toxicity 3 - Dermal Carcinogen 1B
Acute Toxicity 3 - Oral Aspiration Toxicity 1

Reproductive 2

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

Signal Word: DANGER

Hazard Statements:

Pictogram(s):

**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 eye damage

H315 Causes skin irritation

H318 Causes serious eye damageH319 Causes serious eye irritation

H331 Toxic if inhaled

**H335** May cause respiratory irritation

H336 May causes drowsiness or dizziness

H350 May cause cancer

**H361d** Suspected of damaging the unborn child

H373 May causes damage to organs through prolonged or repeated exposure

**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

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

P243 Take precautionary measures against static discharge
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

P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves, protective clothing, eye protection and face protection

P312 Call a POISON CENTER or doctor/physician if you feel unwell 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

P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse

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

P332 + P337 + P313 If skin and/or eye irritation occurs: 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 container tightly closed. Keep cool

P501 Dispose of contents/container in accordance with local, regional, national and

international regulations

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**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	20-40%
n-butanol	71-36-3	5-10%
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%
formaldehyde	50-00-0	<0.2%
iso-butanol	78-83-1	<5%
Copper	7440-50-8	30-40%
Silver	7440-22-4	10-20%

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

Inhalation:

Remove victim to fresh air and keep in a rest 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

Hazardous Component	CAS#	TWA OEL (mg/m3)	TWA OEL (ppm)	STOEL (mg/m3)	STOEL (ppm)
n-butyl acetate	123-86-4	710	150	950	200
xylene	1330-20-7	435	100	650	150
2-methoxy-1- methylethyl acetate	108-65-6	Not Available	Not Available	Not Available	Not Available
toluene	108-88-3	188	50	560	150
solvent naphtha	64742-95-6	1200	Not Available	Not Available	Not Available
ethylbenzene	100-41-4	435	100	545	125
formaldehyde	50-00-0	1.5	1	2.5	2
iso-butanol	78-83-1	150	50	225	75
copper	7440-50-8	1	Not Available	Not Available	Not Available
silver	7440-22-4	0.01	Not Available	Not Available	Not Available

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	
Lye Frotection.	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.	

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Property	Value
Appearance	Viscous Liquid
Odor	Pungent
pH	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	6.38 lbs./gal.
Actual VOC	6.38 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 (rat)	>5000 (rabbit)	Not Available	Not Available
xylene	1330-20-7	4300 (rat)	5000 (rabbit)	Not Available	Not Available
2-methoxy-1- methylethyl acetate	108-65-6	Not Available	Not Available	Not Available	Not Available
toluene	108-88-3	7000 (rat)	>2000 (rabbit)	Not Available	Not Available
solvent naphtha	64742-95-6	>5000 (rat)	Not Available	Not Available	Not Available
ethylbenzene	100-41-4	3500 (rat)	5000 (rabbit)	Not Available	Not Available
formaldehyde	50-00-0	Not Available	Not Available	Not Available	Not Available
iso-butanol	78-83-1	2460 (rat)	Not Available	Not Available	Not Available
copper	7440-50-8	Not Available	Not Available	Not Available	Not Available
silver	7440-22-4	>5000 (rat)	>2000 (rat)	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
copper	7440-50-8	LC50 fathead minnow = 0.0319-0.0544 mg/L 96 h
silver	7440-22-4	LC50 fathead minnow = 0.0023-0.0033 mg/L 96 h

9	SECTION	13	DISPOSAL	INFORMATION
		IJ.	DISFUSAL	HAL OKIMA HOM

Waste Description for Unused Product:	Spent or discarded material is a hazardous waste.
	Information in this SDS is provided only as a guide. Consult with
	proper authority to determine proper waste disposal procedures.
Disposal Methods:	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

#### 49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

# **SECTION 15. REGULATORY INFORMATION**

Toxic Substances Control Act (TSCA)	All components of this product are listed on or exempt from listing
Inventory Status:	on the TSCA inventory.
CERCLA:	7440-50-8 Copper = Listed
OLICLA.	7440-22-4 Silver = Listed
	This product contains the following substances listed as toxic
	chemicals under 313 of the Emergency Planning and Community
SARA 313 Reportable:	Right-to-Know Act of 1986 (EPCRA):
	7440-50-8 Copper
	7440-22-4 Silver
	The following statement is made in order to comply with the
	California Safe Drinking Water and Toxic Enforcement Act of
California Proposition 65	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."
SARA/CERCLA Section 302	N/A

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

#### SDS prepared 02/21/2018



**EUH066** 

Repeated exposure may causes skin dryness or cracking

#### Disclaimer:

The information and recommendations contained herein are based upon tests believed to be reliable. However, Darkside Scientific does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustments to conform to actual conditions of usage may be required. Darkside Scientific assumes no responsibility for the results obtained or for the incidental or consequential damages, including lost profits arising from the use of this data. No warranty against infringement of any patent, copyright or trademark is made or implied.

# **END OF SAFETY DATA**

# **SAFETY DATA SHEET**

#### **DIELECTRIC**

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: DIELECTRIC

Product Code: DE-B311

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

Uses Advised Against: 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 Number:** 1-352-323-3500

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 eye damage H315 Causes skin irritation May cause an allergic skin reaction H317 Causes serious eye damage H318 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. P223 Keep away from any possible contact with water, because of violent reaction and 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 P243 Take precautionary measures against static discharge Do not breathe dust, fumes, gas, mist, vapors or spray P260 Wash hands and any exposed body parts thoroughly after handling P264 P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well-ventilated area P272 Contaminated work clothing should not be allowed out of the workplace 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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses P305 + P351 + P338 if present and easy to do - continue rinsing IF exposed: Call a POISON CENTER or doctor/physician P307 + P311 If skin irritation occurs: Get medical advice/attention P332 + P313 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%
formaldehyde	50-00-0	<0.2%
iso-butanol	78-83-1	<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.	
Skiii:	If skin irritation occurs: Get medical advice/attention.	
	Rinse cautiously with water for several minutes.	
Eyes:	Remove contact lenses if present and easy to do so – continue rinsing.	
	If eye irritation persists: Get medical advice/attention	
	Immediately call a POISON CENTER or doctor/physician.	
Ingestion:	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

Hazardous Component	CAS#	TWA OEL (mg/m3)	TWA OEL (ppm)	STOEL (mg/m3)	STOEL (ppm)
n-butyl acetate	123-86-4	710	150	950	200
xylene	1330-20-7	435	100	650	150
2-methoxy-1- methylethyl acetate	108-65-6	Not Available	Not Available	Not Available	Not Available
toluene	108-88-3	188	50	560	150
solvent naphtha	64742-95-6	1200	Not Available	Not Available	Not Available
ethylbenzene	100-41-4	435	100	545	125
formaldehyde	50-00-0	1.5	1	2.5	2
barium titanium oxide	12047-27-7	Not Available	Not Available	Not Available	Not Available

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.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
----------	-------

Appearance	Viscous Liquid
Odor	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	6.44 lbs./gal.
Actual VOC	6.44 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- methylethyl 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
formaldehyde	50-00-0	Not Available	Not Available	Not Available	Not Available
iso-butanol	78-83-1	2460 mg (rat)	Not Available	Not Available	Not Available
barium titanium oxide	12047-27-7	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:

<b>Hazardous Component</b>	CAS#	Aquatic Toxicity
		LC50 goldfish = 13 mg/L 24 h
xylene	1330-20-7	LC50 rainbow trout = 13.5 mg/L 96 h
-		EC50 daphnia magna = 3.82 mg/L 48 h
400.00.2		LC50 fathead minnow = 25mg/L 96 h
	108-88-3	LC50 rainbow trout = 24 mg/L 96 h
toluene	100-00-3	LC50 bluegill = 24 mg/L 96 h
		EC50 water flea = 11.3 mg/L 48 h

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

regulations.

accordance with all federal, state, and local environmental

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

#### 49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

#### 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):
	None
MSDS Reportable HAP(s)	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."
SARA/CERCLA Section 302	N/A

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

#### SDS prepared 02/21/2018



**EUH066** 

Repeated exposure may causes skin dryness or cracking

#### Disclaimer:

The information and recommendations contained herein are based upon tests believed to be reliable. However, Darkside Scientific does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustments to conform to actual conditions of usage may be required. Darkside Scientific assumes no responsibility for the results obtained or for the incidental or consequential damages, including lost profits arising from the use of this data. No warranty against infringement of any patent, copyright or trademark is made or implied.

# **END OF SAFETY DATA**

# 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 other than recommended **Uses Advised Against:** 

Supplier: Darkside Scientific

> 650 W. Smith Road C18 Medina, OH 44256

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

**Emergency Contact:** Infotrac

**Emergency Telephone Number:** 1-352-323-3500

**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

STOT-SE 3 - Drowsiness/Dizziness Eye Damage 1

Eye Irritant 2 STOT RE 3 – Respiratory

Skin Irritant 2 Skin Sensitizer 1 Acute Toxicity 3 - Inhalation Skin Corrosive 1B Acute Toxicity 3 - Dermal Carcinogen 2 Acute Toxicity 3 - Oral Carcinogen 1B Reproductive 2 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 eye damage

H315 Causes skin irritation H317 May cause an allergic skin reaction 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. P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire P233 Keep container tightly closed Ground and bond container and receiving equipment P240 P241 Use explosion-proof electrical, ventilating and light equipment P242 Use only non-sparking tools P243 Take precautionary measures against static discharge 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 **P272** Contaminated work clothing should not be allowed out of the workplace 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%
formaldehyde	50-00-0	<0.2%
iso-butanol	78-83-1	<5%
Zinc orthsilicate: manganese	68611-47-2	<5%

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

Inhalation:	Remove victim to fresh air and keep in a ret position comfortable for breathing.
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	Remove/take off immediately all contaminated clothing.
Skin:	Rinse skin with water/shower.
	If skin irritation occurs: Get medical advice/attention.
	Rinse cautiously with water for several minutes.
Eyes:	Remove contact lenses if present and easy to do so – continue rinsing.
	If eye irritation persists: Get medical advice/attention
	Immediately call a POISON CENTER or doctor/physician.
Ingestion:	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.

regarding types of personal protective equipment and their operations.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS#	TWA OEL	TWA OEL	STOEL	STOEL
	(mg/m3)	(ppm)	(mg/m3)	(ppm)
123-86-4	710	150	950	200
1330-20-7	435	100	650	150
108-65-6	Not Available	Not Available	Not Available	Not Available
		50		150
64742-95-6	1200	Not Available	Not Available	Not Available
100-41-4	435	100	545	125
50-00-0	1.5	1	2.5	2
12047-27-7	Not Available	Not Available	Not Available	Not Available
ction:	ventilation.  If the applicable Occupational Exposure Limits (OELs) may be exceeded, wear an appropriate NIOSH approved respirator.  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.			
	with an organic was circumstances was exposure limits. Use a positive property for an uncontrolled	rapor cartridge may there airborne cond ressure air supplied ed release, exposu	y be permissible un centrations are exp d respirator if there are levels are not k	nder certain pected to exceed s is any potential nown, or in
	with an organic we circumstances we exposure limits. Use a positive profor an uncontrolled circumstances we	rapor cartridge may here airborne cond ressure air supplied ed release, exposu here an air purifyir and/or solvent resis	y be permissible un centrations are exp d respirator if there are levels are not k no respirator may r	nder certain pected to exceed sis any potential nown, or in not be sufficient.
	with an organic verification of the circumstances were proposed in the circumstances were use face shield a protect against select use gloves to prouse impervious of the circumstances were use impervious of the circumstances were protect against select against select use impervious of the circumstances were used to the circumstances were used to the circumstances with the circumstances were used to t	rapor cartridge may here airborne cond ressure air supplied ed release, exposu here an air purifyir and/or solvent resis	y be permissible uncentrations are experimental descriptions are experimental descriptions. The permission of the permis	nder certain pected to exceed a is any potential nown, or in not be sufficient. ar designed to
	1330-20-7 108-65-6 108-88-3 64742-95-6 100-41-4 50-00-0 12047-27-7	123-86-4       710         1330-20-7       435         108-65-6       Not Available         108-88-3       188         64742-95-6       1200         100-41-4       435         50-00-0       1.5         12047-27-7       Not Available         Prevent build-up ventilation. If the applicable exceeded, wear         A respiratory pro Z88.2 requireme	123-86-4         710         150           1330-20-7         435         100           108-65-6         Not Available         Not Available           108-88-3         188         50           64742-95-6         1200         Not Available           100-41-4         435         100           50-00-0         1.5         1           12047-27-7         Not Available         Not Available           Prevent build-up of vapors by supp ventilation. If the applicable Occupational Exponence exceeded, wear an appropriate NIC A respiratory protection program the Z88.2 requirements must be followed.	123-86-4         710         150         950           1330-20-7         435         100         650           108-65-6         Not Available         Not Available         Not Available           108-88-3         188         50         560           64742-95-6         1200         Not Available         Not Available           100-41-4         435         100         545           50-00-0         1.5         1         2.5           12047-27-7         Not Available         Not Available         Not Available           Prevent build-up of vapors by supplying sufficient ven ventilation.           If the applicable Occupational Exposure Limits (OELs exceeded, wear an appropriate NIOSH approved response to the property of the

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value

Appearance	Viscous Liquid
Odor	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- methylethyl 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
formaldehyde	50-00-0	Not Available	Not Available	Not Available	Not Available
iso-butanol	78-83-1	2460 mg (rat)	Not Available	Not Available	Not Available
barium titanium oxide	12047-27-7	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:

<b>Hazardous Component</b>	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: II

Required Label(s): Flammable Liquid

49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

#### **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):
	None
MSDS Reportable HAP(s)	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."
SARA/CERCLA Section 302	N/A

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

#### SDS prepared 02/21/2018



**EUH066** 

Repeated exposure may causes skin dryness or cracking

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# **END OF SAFETY DATA**

# SAFETY DATA SHEET

# **CONDUCTIVE TOP COAT**

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: CONDUCTIVE TOP COAT

Product Code: CTC-B311

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

Uses Advised Against: 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 Number:** 1-352-323-3500

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

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

The product is not classified according to the Globally Harmonized System (GHS).

Classification(s): Not Applicable

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

Signal Word: Not Applicable

Pictogram(s): Not Applicable

**Hazard Statements:** 

Not Applicable

**Precautionary Statements:** 

Not Applicable

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Composition of Product:** Mixture

CAS# Not Applicable

INGREDIENTS	CAS#	% m/m
Poly(3,4-ethylenedioxythiophene)- poly(styrenesulfonate) PEDOT/PSS	15090-83-8	5-10%
Ethylene Glycol	107-21- 1	1-5%
Dipropylene glycol dimethyl ether	111109-77-4	<2%

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

Inhalation:	Supply fresh air; consult doctor in case of complaints.
Skin:	Wash skin immediately with soap and water. If redness, itching, or a burning sensation develops, seek medical attention immediately. Wash contaminated clothing and decontaminate footwear before reuse.
Eyes:	Rinse opened eye for several minutes under running water.
Ingestion:	If symptoms persist consult doctor.

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

Suitable extinguishing media:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
UN-Suitable extinguishing media:	Not Available
Specific hazards arising from the chemical:	Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, and nitrogen oxides (NOx)
Special protective actions for firefighters:	No special measures required.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

# Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

# SECTION 7. HANDLING AND STORAGE

Storage:	Store away from foodstuffs. Protect from freezing.
Handling:	No special precautions are necessary if used correctly.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Respiratory Protection:	Use suitable respiratory protective device in case of insufficient ventilation. Filter A/P2
Eye Protection:	Goggles recommended during application.
Hand Protection:	Protective gloves Only use chemical-protective gloves with CE-labeling of category III. Check protective gloves prior to each use for their proper condition. After use of gloves apply skin-cleaning agents and skin cosmetics.  Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. For short use and minimal soiling, we recommend disposable protective gloves made of special nitrile. For longer use and stronger soiling we recommend 4H-Chemicals-Protective-Gloves from the company

	SETON.  Penetration time of glove material  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Other Protective Equipment:	Protective work clothing

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
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Appearance	Liquid
Odor	Characteristic
рН	7-8
Boiling Point	100°C (212°F)
Melting Point	Undetermined
Flash Point	Not Applicable
Explosive Properties	Not Available
Oxidizing Properties	Not Available
Vapor Pressure at 20 °C (68 °F):	23 hPa (17 mm Hg) (calc.)
Density	1 g/cm³ (8.345 lbs/gal) (calc.)
Water Solubility	Fully miscible
Fat Solubility	Not Available
Partition Coefficient	Not Determined
Viscosity	Not Determined
Vapor Density	Not Determined
Evaporation Rate	Not Determined
Auto Ignition Temperature	Product is not self-igniting
L.E.L.	Not Determined
U.E.L.	Not Determined
% Non-Volatile	Not Available
Regulatory VOC	100 g/L
Actual VOC	100 g/L

#### **SECTION 10. STABILITY AND REACTIVITY**

Stability Information:	Not Available
Conditions to Avoid:	No further relevant information available.
Chemical Incompatibility:	No further relevant information available.
Hazardous Decomposition Products:	No dangerous decomposition products known.

# SECTION 11. TOXICOLOGICAL INFORMATION

Hazardous Component	CAS#	LD50 Acute Oral mg/kg	LD50 Skin mg/kg	LC50 Acute Inhal/gas mg/m3	LC50 Inhal/mist mg/lt
None		None	None	None	None

# **SECTION 12. ECOLOGICAL INFORMATION**

#### **BOD5 and COD:**

No further relevant information available.

# **Products of Biodegradation:**

No further relevant information available.

# **Toxicity of the Products of Biodegradation:**

No further relevant information available.

#### Special Remarks on the Products of Biodegradation:

No further relevant information available.

#### Available ecological data of ingredients:

Hazardous Component	CAS#	Aquatic Toxicity
None	N/A	None

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

Waste Description for Unused Product:

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: N/A
IMO Class: N/A
UN Number: N/A
Packing Group: N/A
Required Label(s): N/A

#### SECTION 15. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)	All components of this product are listed on or exempt from listing
Inventory Status:	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):
	None
SARA/CERCLA Section 302	Not Applicable

#### Other Regulations:

None

Other Classifications:

None

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

#### SDS prepared 02/21/2018

HMIS (U.S.A.):

Health Hazard: 0 Fire Hazard: 0 Reactivity: 0

#### **National Fire Protection Association (U.S.A.)**

Health: 0 Flammability: 0 Reactivity: 0

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## **END OF SAFETY DATA**