

# SAFETY DATA SHEET

NAME OF PRODUCT Flexgard X

FILE NO.: BG4100- 6110

SDS DATE: 8/2/2018

Version 3: 11-13-2020

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Flexgard X COPPER PAINT

**Colors:** Red, Black

**PRODUCT CODES:** Red 60102, Black 60101/60501

**USES:** Bottom paint for pleasure crafts and net dip antifouling.

Do not use for any application other than its intended use.

This Safety Data Sheet has been updated in accordance with the Global Harmonized System (GHS).

**MANUFACTURER:** New Nautical Coatings, Inc.

**ADDRESS:** 14805 49th St. North, Clearwater, FL 33762

**EMERGENCY PHONE:** 1-800-424-9300

**CHEMTREC 24 Hour Emergency Response:** 1-800-424-9300

**Information: SDS Coordinator:** 1-732-901-6500

**FAX PHONE:** 1-732-901-6504

**PREPARED BY:** New Nautical Coatings, Inc.

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## SECTION 2: HAZARD(S) IDENTIFICATION

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### EMERGENCY OVERVIEW:

Causes irritation to the skin, eyes, mucous membranes and respiratory tract.  
Can be absorbed through the skin causing systemic effects.

### GHS Classification:

H326 Flammable liquid and vapor  
H302 Harmful if swallowed  
H313 May be Harmful in contact with skin  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
May cause an allergic skin reaction  
H410 Very toxic to aquatic life with long lasting effects

### GHS Label elements:

#### Pictograms:



**Signal Word:** **Danger**

H326 Flammable liquid and vapor  
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H313 May be Harmful in contact with skin  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
May cause an allergic skin reaction  
H410 Very toxic to aquatic life with long lasting effects

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P260 Do not breathe mist / vapors / spray.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray. P262 Do not get in eyes, on skin, or on clothing.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment.

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P280 Wear protective gloves / eye protection / face protection.

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302+352 IF ON SKIN: Wash with soap and water.

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P312 Call a POISON CENTER or doctor / physician if you feel unwell. P330 Rinse mouth.

P331 Do NOT induce vomiting.

P333+313 If skin irritation or a rash occurs: Get medical advice/attention. P337 If eye irritation persists:.

P362 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothing before reuse.

P370 In case of fire: Use water spray, fog, or regular foam.. P391 Collect spillage.

P403+233 Store in a well ventilated place. Keep container tightly closed.

P501 Dispose of contents / container in accordance with local / national regulations. HMIS Rating

Health: 2\*

Flammability: 3

Reactivity: 0

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Cuprous Oxide CAS# 1317-39-1	20.0 – 28.0	Acute toxicity (4) Harmful if swallowed, H302 Aquatic Acute Very toxic to aquatic life, H400 Aquatic Chronic Very toxic to aquatic life with long lasting effects, H410	1, 2
Xylenes (mixed isomers) CAS Number: 0001330-20-7	20.0 – 25.0	Flam. Liq. (3); Flammable liquid and vapor, H226 Acute Tox. (4); Harmful if inhaled, H332 Acute Tox. (4); Harmful in contact with skin, H312 Skin Irrit. (2); Causes skin irritation, H315 Eye Irrit. (920); Causes serious eye irritation, H319 STOT (SE) (3); May cause respiratory irritation, H335 Asp. Tox. (1); May be fatal if swallowed and enters airways, H304	1,2
Mineral Spirits (Stoddard solvent) 8052-41-3	20.0 – 25.0	Flam. Liq. (3); Flammable liquid and vapor, H226 Acute Tox. (4); Harmful if inhaled, H332 Skin Irrit. (2); Causes skin irritation, H315 Eye Irrit. (920); Causes serious eye irritation, H319 STOT (SE) (3); May cause respiratory irritation, H335 STOT (SE) (3) Narcotic Effects STOT (RE) (2); Central nervous system (CNS) Asp. Tox. (1); May be fatal if swallowed and enters airways, H304	1, 2
Kaolin CAS# 1317-70-0	3.0 – 7.0	-----	1, 2
Zinc Oxide CAS# 1314-13-2	1.0 – 5.0	Aquatic Acute Very toxic to aquatic life, H400 Aquatic Chronic Very toxic to aquatic life with long lasting effects, H410	1, 2

GHS Classification Scale (1 = severe; 4 = slight)

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit

[3] PBT substance or vPvb substance

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## SECTION 4: FIRST AID MEASURES

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### Description of first aid measures

**General** Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean contaminated shoes.

**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**Skin** In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.

**Ingestion** If swallowed, immediately contact Poison Control Center. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person.

### Important symptoms and effects, acute and delayed

**Overview** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Avoid contact with eyes, skin and clothing.

**Inhalation** Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing Dizziness, headache or nausea.

**Eyes** Causes severe eye irritation. Avoid contact with eyes.

**Skin** Causes skin irritation. May be harmful if absorbed through skin.

**Ingestion** Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea or drowsiness.

**Chronic effects** Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data. Risk of cancer dependent on duration and level of exposure.

### SECTION 4 NOTES:

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## SECTION 5: FIRE-FIGHTING MEASURES

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**CLEAR THE AREA OF ALL NON FIRE-FIGHTING PERSONAL**

### FLAMMABLE LIMITS IN AIR, UPPER:

(% BY VOLUME) UPPER 6 LOWER: .5

### FLASH POINT:

F: 100

C: 37.8

METHOD USED: TAGLIABUE CLOSED CUP

### AUTOIGNITION TEMPERATURE:

F: 446 - 540

C: 230 - 282

### NFPA HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 2

REACTIVITY: 0

OTHER:

### HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 2

REACTIVITY: 0

PROTECTION: D

### EXTINGUISHING MEDIA:

FOAM, WATER SPRAY OR FOG. DRY CHEMICAL POWDER MAY BE USED FOR SMALL FIRES ONLY. DO NOT DISCHARGE EXTINGUISHING WATERS INTO THE AQUATIC ENVIRONMENT.

### UNSUITABLE EXTINGUISHING MEDIA:

DO NOT USE WATER IN A JET

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**SPECIAL FIRE FIGHTING PROCEDURES:** WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. PERSONS NOT WEARING SUITABLE BREATHING PROTECTION SHOULD LEAVE THE AREA TO PREVENT SIGNIFICANT EXPOSURE TO TOXIC COMBUSTION GASSES.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** CARBON MONOXIDE MAY EVOLVE IF INCOMPLETE COMBUSTION OCCURS. WILL FLOAT AND CAN BE IGNITED ON SURFACE WATER. THE VAPOR IS HEAVIER THAN AIR AND SPREADS ALONG THE GROUND AND DISTANT IGNITION CAN OCCUR

**HAZARDOUS DECOMPOSITION PRODUCTS:** TOXIC GAS GENERATION (CO<sub>2</sub>CO)

## SECTION 5 NOTES:

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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- Personal protection:** Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see section 8 of this MSDS. Stop all leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using sprays. Take precautionary measures against static discharges. Ensure electrical continuity by bonding and grounding all equipment. Monitor area with combustible gas indicator.
- Clean up methods** For small liquid spills (< 50 US gal.), transfer by mechanical means to salvage container for safe disposal. Allow residues to evaporate or soak up with a non-flammable absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
- Additional advice:** See chapter 13 for information on disposal. Do not emit to sewers, waterways or soil. Advise the environmental authorities if liquid product enters a waterways or sewer.

## SECTION 6 NOTES:

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### SECTION 7: HANDLING AND STORAGE

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- General Precautions** Avoid breathing vapors or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. On guidance for selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
- Handling** Extinguish any open flames. Do not smoke. Remove ignition sources. Avoid Contact with skin, eyes and clothing. Electrostatic charges may be generated during pumping, Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding all equipment and containers during transfer.
- Storage** Store away from sunlight, ignition sources and other sources of heat. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable materials that are not toxic or harmful to man.
- Product transfer** Keep containers closed when not in use. Do not use compressed air for filling, discharging or handling.
- Recommended materials** For containers or container linings use mild steel or stainless steel.

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Unsuitable materials                      Avoid prolonged contact with natural, butyl or nitrile rubbers.

Container advice                              Containers, even those that have been emptied, can contain explosive vapors.  
Do not cut, drill, grind, weld or perform similar operations on or near  
containers.

## SECTION 7 NOTES:

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational exposure limits

In the absence occupational exposure standards for this product, it is recommended that the following are adopted.

Material	Source	Type	ppm	mg/m3	notation
1,2,4-trimethyl benzene	ACGIH	TWA	25 ppm		
	OSHA Z1A	TWA	25 ppm	125 mg/n3	
1,3,5 trimethyl benzene	ACGIH	TWA	25 ppm		
	OSHA Z1A	TWA	25 ppm	125 mg/m3	
Cumene	ACGIH	TWA	50 ppm		
	OSHA Z1	PEL	50 ppm	245 mg/m3	
	OSHA Z1	SKIN_DES			Can be absorbed through the skin.
	OSHA Z1A	TWA	50ppm	245 mg/m3	
	OSHA Z1A	SKIN_FINAL			Can be absorbed through the skin.
1,2,3 Trimethyl benzene	ACGIH	TWA	25 ppm		
	OSHA Z1A	TWA	25 ppm	125 mg/m3	
Xylene, mixed isomers	ACGIH	TWA	100 ppm		
	ACGIH	STEL	150 ppm		
	OSHA Z1	PEL	100 ppm	435mg/m3	
	OSHA Z1A	TWA	100 ppm	435 mg/m3	
	OSHA Z1A	STEL	150 ppm	655mg/m3	
Toluene	ACGIH	TWA	20 ppm		
	OSHA Z1A	TWA	100 ppm	375mg/m3	
	OSHA Z1A	STEL	150 ppm	560 mg/m3	
	OSHA Z2	TWA	200 ppm		
	OSHA Z2	Ceiling	300 ppm		
	OSHA Z2	MAX. CONC	500 ppm		
Benzene	ACGIH	TWA	0.5 ppm		
	ACGIH	STEL	2.5 ppm		
	ACGIH	SKIN_DES			Can be absorbed through skin
	OSHA	TWA	1ppm		
	OSHA	STEL	5 ppm		

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	OSHA	ACTION	0.5 ppm		
	OSHA Z 1 A	TWA	1 ppm		
	OSHA Z1A	STEL	5 ppm		
	OSHA	REF			

**Additional Information** The ACGIH-values are adopted by the local authorities and have to be adhered to. Wash hands before eating, drinking, smoking and using the toilet.

**Exposure Controls** The level of protection and types of controls necessary will vary depending on potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate explosion proof ventilation to control airborne concentrations below the airborne concentrations/ limits. Eyewashes and showers for emergency use,

**Personal Protective** Personal protective equipment (PPE) should meet national safety Equipment standards. Check with PPE suppliers.

**Respiratory protection** Wear approved respiratory protection. Type of respirator depends on the airborne concentrations from other chemical substances in the work area.

**Eye protection:** Wear splash proof goggles.

**Hand protection:** Wear chemical resistant gloves (Latex, Rubber). Gloves should be selected in consultation with the glove supplier, with information on effects from other chemical substances in the work place. Wash well after contact with this product.

**Skin protection:** Wear protective clothing (apron, long sleeve shirt).

**Environment:** Do not emit to sewers, waterways or soil. Advise the environmental authorities if substance has entered a watercourse or sewer.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** RED, BLACK VISCOUS LIQUID

**ODOR:** TYPICAL HYDROCARBON

**PHYSICAL STATE:** LIQUID

**pH AS SUPPLIED:** NA

**pH (Other):**

**BOILING POINT:**

F: 309 - 410

C: 154 - 210

**FFLASH POINT:**

F: 100.0

C: 37.8

**MELTING POINT:**

F: NA

C: NA

**FREEZING POINT:**

F: NA

C: NA

**VAPOR PRESSURE AIR** = 0.09 - 0.56 kPa AT 20.0° C/ 68.0° F

**VAPOR DENSITY AIR** = 1: 4.8

**SPECIFIC GRAVITY (H2O = 1):**

1.62-1.65 @ 68° F: 20° C:

**EVAPORATION RATE:**

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BAC (=1): .1

SOLUBILITY IN WATER: NEGLIGBLE

SECTION 9 NOTES:

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## SECTION 10: STABILITY AND REACTIVITY

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	<u>STABLE</u>	<u>UNSTABLE</u>
<b>STABILITY:</b>	X STABLE UNDER NORMAL CONDITIONS	
<b>CONDITIONS TO AVOID (STABILITY):</b>	AVOID HEAT, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES.	
<b>INCOMPATIBILITY (MATERIAL TO AVOID):</b>	STRONG OXIDIZING AGENTS, (HYDROGEN PEROXIDE / PERMANGANATES / PERCHLORATES, DEPENDING ON THE AMOUNT. CONTACT CAN RESULT IN INTENSE HEAT / EXPLOSION.	
<b>HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:</b>	TOXIC GAS GENERATION (CO <sub>2</sub> CO) ON BURNING.	
<b>HAZARDOUS POLYMERIZATION:</b>	WILL NOT OCCUR UNDER NORMAL CONDITIONS.	
<b>CONDITIONS TO AVOID NA (POLYMERIZATION):</b>		

SECTION 10 NOTES:

### 11. Toxicological information.

Basis for Assessment:	Information given is based on similar products and/or components.
Acute Oral Toxicity:	Low toxicity: LD50>2000mg/kg, Rat Aspiration into the lungs may cause chemical pneumonitis which can be fatal.
Acute Dermal Toxicity:	Low toxicity: LD50>2000mg/kg, Rat
Acute Inhalation Toxicity:	Low toxicity: LC50 greater than near-saturated vapour concentration./ 1 hours, Rat High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
Skin Irritation:	May cause mild skin irritation (but insufficient to classify). Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
Eye Irritation:	Essentially non irritating to eyes
Respiratory Irritation:	Repeated inhalation and mists is expected to cause irritation to the respiratory track.
Sensitisation:	Not a skin sensitizer.
Repeated Dose Toxicity:	Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the Environment may cause hearing loss. (Xylene) Kidney: caused kidney effects in rats which are not considered relevant to humans.
Carcinogenicity:	An increased tumor incidence has been observed in experimental animals:

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The significance of this finding to humans is unknown. (Cumene)

Material	:	Carcinogenicity Classification
Xylene, Mixed Isomers	:	ACGIH Group A4: Not classified as a human carcinogen
Xylene, Mixed Isomers	:	IARC 3: Not classified as to carcinogenicity to humans

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** THIS PRODUCT IS MISCIBLE IN WATER AND TOXIC TO THE MARINE ENVIROMENT. PREVENT LIQUID PRODUCT FROM ENTERING SEWERS OR WATERWAYS.

### SECTION 12 NOTES:

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**Material Disposal :** Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with local regulations.  
Do not dispose of into the environment, in drains or in watercourses.  
Waste product should not be allowed to contaminate soil or water.

**Container Disposal :** Drain container thoroughly. After draining, vent in a safe place away from sparks, fire and other ignition sources. Residues may cause an explosion hazard. Render containers unusable and offer for reclaiming or recycling.

### SECTION 13 NOTES:

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## SECTION 14: TRANSPORT INFORMATION

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**US DOT HAZARD CLASS:**.....PAINT FLAMMABLE LIQUID

**UN-number:** 1263

**Proper shipping name:** Paint

### Sea (IMDG):

**Class:** 3  
**PG:** III  
**MP:** Yes  
**EmS:** F-E, S-E  
**MFAG:** 1

**Inland waterways:** to be handled locally

**Air (ICAO/IATA®)**



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**Class:** 3  
**PG:** III

## Land (RID/ADR):

**Class:** 3  
**PG:** III  
**Primary Risk label:** 3

## SECTION 14 NOTES:

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## SECTION 15: REGULATORY INFORMATION

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### EPA REGISTRATION NO. 44891-24

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

DOT Marine Pollutants (10%):  
(No Product Ingredients Listed) DOT

Severe Marine Pollutants (1%)  
Copper

EPCRA 311/312 Chemicals and RQs (>.1%) :

Copper (5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diame)  
Benzene, ethyl- (1000 lb final RQ; 454 kg final RQ)  
Xylenes (o-, m-, p- isomers) (100 lb final RQ; 45.4 kg final RQ)

EPCRA 302 Extremely Hazardous (>.1%) :

(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals (>.1%) : Copper

Benzene, ethyl-  
Xylenes (o-, m-, p- isomers)

Mass RTK Substances (>1%) :

Copper  
Benzene, ethyl-  
Xylenes (o-, m-, p- isomers)  
Zinc oxide

Penn RTK Substances (>1%) :

Copper Benzene, ethyl-  
Xylenes (o-, m-, p- isomers)  
Zinc oxide

Penn Special Hazardous Substances (>.01%) :

(No Product Ingredients Listed)

RCRA Status:

(No Product Ingredients Listed)

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**N.J. RTK Substances (>1%)**

Copper  
Benzene, ethyl-  
Xylenes (o-, m-, p- isomers)  
Zinc oxide

**N.J. Special Hazardous Substances (>.01%) :**

black Benzene, ethyl-,  
Xylenes (o-, m-, p- isomers)

**N.J. Env. Hazardous Substances (>.1%) :**

Copper  
Benzene, ethyl-  
Xylenes (o-, m-, p- isomers)

**Proposition 65 - Carcinogens (>0%):**

Benzene, ethyl-

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## SECTION 16: OTHER INFORMATION

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The content and format of this MSDS is in accordance with the OSHA Hazard communication standard, 29CFR 1910.1200

**Use restrictions:** As stated on label.

**MSDS distribution:** The information in this document should be made available all who may handle the product.

**ABBREVIATIONS:** ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = Occupational Safety and Health Administration

TLV = Threshold Limit Value

TWA = Time Weighted Average

PEL = Permissible Exposure Limit

STEL = Short Term Exposure Limit

Bac = Butyl Acetate

NA = Not Applicable

**PREPARATION INFORMATION:** HMIS Hazard Ratings Scale 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Extreme  
Check with supervisor for appropriate personal protection in accordance with rating.

Reviewed 12/06/2012; 03/01/2013; 04/06/2015: 07/2018

**VOC Content:** 4.27 lb/gal. (514 gr/l)

### DISCLAIMER:

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