

**Published Date**  
Nov-13-2023

**Revision Date**  
Nov-13-2023

**Revision Number**  
2.6

## 1. IDENTIFICATION

**Product identifier**

**Product code** 5152  
**Product name** Super Opaque Black  
**Product category** 5100 Series SV Screen Ink

**Other means of identification**

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended use** Industrial Printing Operations

**Details of the supplier of the safety data sheet**

|                         |                            |
|-------------------------|----------------------------|
| UNITED STATES           | UNITED KINGDOM             |
| Nazdar Company          | Nazdar Limited             |
| 8501 Hedge Lane Terrace | Barton Road                |
| Shawnee, KS 66227       | Heaton Mersey              |
| Tel: +001-913-422-1888  | Stockport, England SK4 3EG |
| Tel: +001-800-677-4657  | Tel: +44 161 442 2111      |
| Fax: +001-913-422-2294  |                            |
| www.nazdar.com          |                            |

**Emergency telephone number**

USA: Chemtrec: +001-800-424-9300  
 Outside USA: Chemtrec: +001-703-527-3887  
 24 Hour Emergency Phone Number

## 2. HAZARDS IDENTIFICATION

**Classification**

|                                   |                      |
|-----------------------------------|----------------------|
| Skin corrosion/irritation         | Category 2 - (H315)  |
| Serious eye damage/eye irritation | Category 1 - (H318)  |
| Skin sensitization                | Category 1 - (H317)  |
| Carcinogenicity                   | Category 1B - (H350) |
| Flammable liquids                 | Category 3 - (H226)  |

**Label elements**



**Signal word**  
Danger

**Hazard statements**

H226 - Flammable liquid and vapor  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H350 - May cause cancer

#### Precautionary Statements

P201 - Obtain special instructions before use

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P403 + P235 - Store in a well-ventilated place. Keep cool

#### Hazards not otherwise classified (HNOC)

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

| Chemical name                       | CAS No.       | Weight-%  | Trade secret | Note |
|-------------------------------------|---------------|-----------|--------------|------|
| Resin                               | Not Available | 10 - 30   | *            |      |
| Resin                               | Not Available | 10 - 30   | *            |      |
| 1-Butanol                           | 71-36-3       | 10 - 30   | *            |      |
| Dipropylene glycol monomethyl ether | 34590-94-8    | 5 - 10    | *            |      |
| Ethylene glycol monopropyl ether    | 2807-30-9     | 5 - 10    | *            |      |
| 2-Butoxyethanol                     | 111-76-2      | 5 - 10    | *            |      |
| Carbon black                        | 1333-86-4     | 5 - 10    | *            |      |
| Phosphoric acid, dibutyl ester      | 107-66-4      | 0.1 - < 1 | *            |      |
| Phosphoric acid, monobutyl ester    | 1623-15-0     | 0.1 - < 1 | *            |      |
| Formaldehyde                        | 50-00-0       | 0.1 - < 1 | *            |      |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

#### Description of first aid measures

##### General Advice

Show this safety data sheet to the doctor in attendance.

##### Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

##### Skin Contact

Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

##### Inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

##### Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

#### Most important symptoms and effects, both acute and delayed

None under normal use conditions.

#### Indication of any immediate medical attention and special treatment needed

##### Notes to Physician

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal Precautions**

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

#### **Methods and material for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

#### **Handling**

Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

#### **Incompatible Products**

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

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

### **Control parameters**

#### **Exposure limits**

| <b>Chemical name</b>                              | <b>ACGIH TLV</b>                                      |
|---|---|
| 1-Butanol<br>71-36-3                              | TWA: 20 ppm   |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA: 50 ppm   |
| 2-Butoxyethanol<br>111-76-2                       | TWA: 20 ppm   |
| Carbon black<br>1333-86-4                         | TWA: 3 mg/m <sup>3</sup> inhalable particulate matter |

|  |   |
|--|---|
| Phosphoric acid, dibutyl ester<br>107-66-4 | TWA: 5 mg/m <sup>3</sup> inhalable fraction and vapor<br>Skin |
| Formaldehyde<br>50-00-0                    | TWA: 0.1 ppm<br>STEL: 0.3 ppm                                 |

| Chemical name                                     | OSHA PEL   |
|---|--|
| 1-Butanol<br>71-36-3                              | TWA: 100 ppm<br>TWA: 300 mg/m <sup>3</sup>         |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA: 100 ppm<br>TWA: 600 mg/m <sup>3</sup><br>Skin |
| 2-Butoxyethanol<br>111-76-2                       | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>Skin  |
| Carbon black<br>1333-86-4                         | TWA: 3.5 mg/m <sup>3</sup>                         |
| Phosphoric acid, dibutyl ester<br>107-66-4        | TWA: 1 ppm<br>TWA: 5 mg/m <sup>3</sup>             |
| Formaldehyde<br>50-00-0                           | TWA: 0.75 ppm<br>STEL: 2 ppm                       |

| Chemical name                                     | OSHA PEL (vacated)   |
|---|--|
| 1-Butanol<br>71-36-3                              | Ceiling: 50 ppm<br>Ceiling: 150 mg/m <sup>3</sup><br>Skin  |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA: 100 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 900 mg/m <sup>3</sup><br>Skin |
| 2-Butoxyethanol<br>111-76-2                       | TWA: 25 ppm<br>TWA: 120 mg/m <sup>3</sup><br>Skin  |
| Carbon black<br>1333-86-4                         | TWA: 3.5 mg/m <sup>3</sup>   |
| Phosphoric acid, dibutyl ester<br>107-66-4        | TWA: 1 ppm<br>TWA: 5 mg/m <sup>3</sup><br>STEL: 2 ppm<br>STEL: 10 mg/m <sup>3</sup>                |
| Formaldehyde<br>50-00-0                           | Ceiling: 5 ppm<br>TWA: 3 ppm<br>STEL: 10 ppm   |

| Chemical name                                     | Ontario TWAEV   |
|---|---|
| 1-Butanol<br>71-36-3                              | TWA: 20 ppm   |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA: 100 ppm<br>STEL: 150 ppm<br>Skin                         |
| Ethylene glycol monopropyl ether<br>2807-30-9     | TWA: 25 ppm<br>TWA: 110 mg/m <sup>3</sup><br>Skin             |
| 2-Butoxyethanol<br>111-76-2                       | TWA: 20 ppm   |
| Carbon black<br>1333-86-4                         | TWA: 3 mg/m <sup>3</sup> inhalable particulate matter         |
| Phosphoric acid, dibutyl ester<br>107-66-4        | TWA: 5 mg/m <sup>3</sup> inhalable fraction and vapor<br>Skin |
| Formaldehyde<br>50-00-0                           | TWA: 0.1 ppm<br>STEL: 1 ppm                                   |

| Chemical name                       | Mexico OEL (TWA)     |
|-------------------------------------|----------------------|
| 1-Butanol<br>71-36-3                | TWA/VLE-PPT: 20 ppm  |
| Dipropylene glycol monomethyl ether | TWA/VLE-PPT: 100 ppm |

|  |   |
|--|---|
| 34590-94-8                                 | STEL/PPT-CT: 150 ppm  |
| 2-Butoxyethanol<br>111-76-2                | TWA/VLE-PPT: 20 ppm   |
| Carbon black<br>1333-86-4                  | TWA/VLE-PPT: 3 mg/m <sup>3</sup> inhalable fraction           |
| Phosphoric acid, dibutyl ester<br>107-66-4 | TWA/VLE-PPT: 5 mg/m <sup>3</sup> inhalable fraction and vapor |
| Formaldehyde<br>50-00-0                    | Ceiling: 0.3 ppm  |

### Appropriate engineering controls

#### **Engineering Measures**

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

### Individual protection measures, such as personal protective equipment

#### **Eye/Face Protection**

Wear safety glasses with side shields (or goggles). If splashes are likely to occur. Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Skin Protection**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

#### **Hand Protection**

Chemical resistant protective gloves.  
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other  
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.  
Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

#### **Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

#### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                       |                          |                                  |                          |
|---------------------------------------|--------------------------|----------------------------------|--------------------------|
| <b>Physical state</b>                 | Liquid                   | <b>Appearance</b>                | Colored                  |
| <b>Odor</b>                           | Characteristic           | <b>Odor Threshold</b>            | No information available |
| <b>Property</b>                       | <b>Values</b>            | <b>Remarks • Method</b>          |                          |
| <b>pH</b>                             |                          | No data available                |                          |
| <b>Melting Point / Freezing Point</b> | No information available | No data available                |                          |
| <b>Boiling Point / Boiling Range</b>  | > 149 °C / 300 °F        |                                  |                          |
| <b>Flash Point</b>                    | 39 °C / 102 °F           | Pensky Martens Closed Cup (PMCC) |                          |
| <b>Evaporation rate</b>               |                          | No data available                |                          |

**Flammability Limit in Air**

|  |                          |                   |
|--|--------------------------|-------------------|
| Upper flammability limit               |                          | No data available |
| Lower flammability limit               |                          | No data available |
| Vapor Pressure                         |                          | No data available |
| Vapor Density                          |                          | No data available |
| Specific Gravity                       | 1.05                     |                   |
| Water Solubility                       |                          | No data available |
| Solubility in other solvents           |                          | No data available |
| Partition coefficient: n-octanol/water |                          | No data available |
| Autoignition Temperature               | No information available | No data available |
| Hypen                                  |                          | No data available |
| Kinematic viscosity                    |                          | No data available |
| Dynamic viscosity                      |                          | No data available |

**Explosive Properties** No data available

**Oxidizing Properties** No data available

**Other information**

**Photochemically Reactive** No  
**Weight Per Gallon (lbs/gal)** 8.76

| VOC by weight %<br>(less water) | VOC by volume %<br>(less water) | VOC lbs/gal<br>(less water) | VOC grams/liter<br>(less water) |
|---------------------------------|---------------------------------|-----------------------------|---------------------------------|
| 43.99                           | 46.93                           | 3.86                        | 462.33                          |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No information available.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

**Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. |
| <b>Eye Contact</b>  | Specific test data for the substance or mixture is not available. |
| <b>Skin Contact</b> | Specific test data for the substance or mixture is not available. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. |

| Chemical name                                     | Oral LD50           |
|---|---------------------|
| 1-Butanol<br>71-36-3                              | = 700 mg/kg ( Rat ) |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | = 5.35 g/kg ( Rat ) |

|   |                       |
|---|-----------------------|
| Ethylene glycol monopropyl ether<br>2807-30-9 | = 3089 mg/kg ( Rat )  |
| 2-Butoxyethanol<br>111-76-2                   | = 470 mg/kg ( Rat )   |
| Carbon black<br>1333-86-4                     | > 15400 mg/kg ( Rat ) |
| Phosphoric acid, dibutyl ester<br>107-66-4    | = 3200 mg/kg ( Rat )  |
| Formaldehyde<br>50-00-0                       | = 100 mg/kg ( Rat )   |

| Chemical name                                     | Dermal LD50             |
|---|-------------------------|
| 1-Butanol<br>71-36-3                              | = 3402 mg/kg ( Rabbit ) |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | = 9500 mg/kg ( Rabbit ) |
| Ethylene glycol monopropyl ether<br>2807-30-9     | = 870 mg/kg ( Rabbit )  |
| 2-Butoxyethanol<br>111-76-2                       | = 435 mg/kg ( Rabbit )  |
| Formaldehyde<br>50-00-0                           | > 2000 mg/kg ( Rat )    |

| Chemical name                                 | Inhalation LC50                                |
|---|--|
| 1-Butanol<br>71-36-3                          | > 8000 ppm ( Rat ) 4 h                         |
| Ethylene glycol monopropyl ether<br>2807-30-9 | = 1530 ppm ( Rat ) 7 h                         |
| 2-Butoxyethanol<br>111-76-2                   | = 450 ppm ( Rat ) 4 h<br>= 486 ppm ( Rat ) 4 h |
| Carbon black<br>1333-86-4                     | > 4.6 mg/m <sup>3</sup> ( Rat ) 4 h            |
| Formaldehyde<br>50-00-0                       | < 463 ppm ( Rat ) 4 h                          |

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Specific test data for the substance or mixture is not available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Specific test data for the substance or mixture is not available. Causes skin irritation (pain, redness and swelling). (based on components).

**Eye damage/irritation** Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components).

**Irritation** Specific test data for the substance or mixture is not available.

**Corrosivity** Specific test data for the substance or mixture is not available.

**Sensitization** Specific test data for the substance or mixture is not available. May cause an allergic skin reaction. (based on components).

**Mutagenic Effects** Specific test data for the substance or mixture is not available.

**Carcinogenic effects** Specific test data for the substance or mixture is not available. May cause cancer. (based on components).

**Reproductive Effects** Specific test data for the substance or mixture is not available.

**STOT - single exposure** Specific test data for the substance or mixture is not available.

**STOT - repeated exposure** Specific test data for the substance or mixture is not available.

**Chronic Toxicity** Specific test data for the substance or mixture is not available.

**Aspiration hazard** Specific test data for the substance or mixture is not available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name               | ACGIH |
|-----------------------------|-------|
| 2-Butoxyethanol<br>111-76-2 | A3    |
| Carbon black<br>1333-86-4   | A3    |

|                           |             |
|---------------------------|-------------|
| Formaldehyde<br>50-00-0   | A1          |
| <b>Chemical name</b>      | <b>IARC</b> |
| Carbon black<br>1333-86-4 | Group 2B    |
| Formaldehyde<br>50-00-0   | Group 1     |
| <b>Chemical name</b>      | <b>NTP</b>  |
| Formaldehyde<br>50-00-0   | Known       |
| <b>Chemical name</b>      | <b>OSHA</b> |
| Carbon black<br>1333-86-4 | X           |
| Formaldehyde<br>50-00-0   | X           |

### Numerical measures of toxicity - Product Information

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                 |
|--------------------------------------|-----------------|
| <b>ATEmix (oral)</b>                 | 3,472.20 mg/kg  |
| <b>ATEmix (dermal)</b>               | 12,194.00 mg/kg |
| <b>ATEmix (inhalation-gas)</b>       | 99,999.00       |
| <b>ATEmix (inhalation-dust/mist)</b> | 17.60 mg/l      |
| <b>ATEmix (inhalation-vapor)</b>     | 126.30 mg/l     |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Specific test data for the substance or mixture is not available.

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name                                     | Algae/aquatic plants   |
|---|--|
| 1-Butanol<br>71-36-3                              | 72h EC50 <i>Desmodesmus subspicatus</i> : > 500 mg/L<br>96h EC50 <i>Desmodesmus subspicatus</i> : > 500 mg/L   |
| Chemical name                                     | Fish   |
| 1-Butanol<br>71-36-3                              | 96h LC50 <i>Lepomis macrochirus</i> : 100000 - 500000 µg/L (static)<br>96h LC50 <i>Pimephales promelas</i> : = 1910000 µg/L (static)<br>96h LC50 <i>Pimephales promelas</i> : 1730 - 1910 mg/L (static)<br>96h LC50 <i>Pimephales promelas</i> : = 1740 mg/L (flow-through)  |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | 96h LC50 <i>Pimephales promelas</i> : > 10000 mg/L (static)  |
| Ethylene glycol monopropyl ether<br>2807-30-9     | 96h LC50 <i>Pimephales promelas</i> : > 5000 mg/L (static)   |
| 2-Butoxyethanol<br>111-76-2                       | 96h LC50 <i>Lepomis macrochirus</i> : = 1490 mg/L (static)<br>96h LC50 <i>Lepomis macrochirus</i> : = 2950 mg/L  |
| Phosphoric acid, dibutyl ester<br>107-66-4        | 96h LC50 <i>Danio rerio</i> : > 100 mg/L (static)  |
| Formaldehyde<br>50-00-0                           | 96h LC50 <i>Pimephales promelas</i> : 22.6 - 25.7 mg/L (flow-through)<br>96h LC50 <i>Lepomis macrochirus</i> : = 1510 µg/L (static)<br>96h LC50 <i>Brachydanio rerio</i> : = 41 mg/L (static)<br>96h LC50 <i>Oncorhynchus mykiss</i> : 0.032 - 0.226 mL/L (flow-through)<br>96h LC50 <i>Oncorhynchus mykiss</i> : 100 - 136 mg/L (static)<br>96h LC50 <i>Pimephales promelas</i> : 23.2 - 29.7 mg/L (static) |



| Chemical name                                     | Crustacea  |
|---|--|
| 1-Butanol<br>71-36-3                              | 48h EC50 Daphnia magna: 1897 - 2072 mg/L Static<br>48h EC50 Daphnia magna: = 1983 mg/L |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | 48h LC50 Daphnia magna: = 1919 mg/L  |
| 2-Butoxyethanol<br>111-76-2                       | 48h EC50 Daphnia magna: > 1000 mg/L  |
| Formaldehyde<br>50-00-0                           | 48h LC50 Daphnia magna: = 2 mg/L<br>48h EC50 Daphnia magna: 11.3 - 18 mg/L Static      |

**Persistence and Degradability**

No information available.

**Bioaccumulation**

| Chemical name                                     | Partition coefficient |
|---|-----------------------|
| 1-Butanol<br>71-36-3                              | 0.785                 |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | -0.064                |
| 2-Butoxyethanol<br>111-76-2                       | 0.81                  |
| Formaldehyde<br>50-00-0                           | 0.35                  |

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Waste Disposal Methods**

Contain and dispose of waste according to local regulations.

**Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

**Note:**

This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**DOT**

In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

**UN/ID no**  
**Proper Shipping Name**  
**Transport hazard class(es)**  
**Packing Group**

UN1210  
Printing Ink  
3  
III

**ICAO / IATA / IMDG / IMO**

**UN/ID no**  
**Proper Shipping Name**  
**Transport hazard class(es)**  
**Packing Group**

UN1210  
Printing Ink  
3  
III

## 15. REGULATORY INFORMATION

### International Inventories

All substances are listed as ACTIVE on the TSCA Inventory. For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor).

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name                    | CAS No.   | Weight-%  | SARA 313 - Threshold Values % |
|----------------------------------|-----------|-----------|-------------------------------|
| 1-Butanol                        | 71-36-3   | 10 - 30   | 1.0                           |
| Ethylene glycol monopropyl ether | 2807-30-9 | 5 - 10    | 1.0                           |
| 2-Butoxyethanol                  | 111-76-2  | 5 - 10    | 1.0                           |
| Formaldehyde                     | 50-00-0   | 0.1 - < 1 | 0.1                           |

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

| Chemical name                    | CAS No.   | Weight-%  |
|----------------------------------|-----------|-----------|
| Ethylene glycol monopropyl ether | 2807-30-9 | 5 - 10    |
| Formaldehyde                     | 50-00-0   | 0.1 - < 1 |

### US State Regulations

| Chemical name                                     | Massachusetts |
|---|---------------|
| 1-Butanol<br>71-36-3                              | X             |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | X             |
| 2-Butoxyethanol<br>111-76-2                       | X             |
| Carbon black<br>1333-86-4                         | X             |
| Phosphoric acid, dibutyl ester<br>107-66-4        | X             |
| Formaldehyde<br>50-00-0                           | X             |

| Chemical name                                     | Minnesota<br>Right To Know |
|---|----------------------------|
| 1-Butanol<br>71-36-3                              | X                          |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | X                          |
| 2-Butoxyethanol<br>111-76-2                       | X                          |
| Carbon black<br>1333-86-4                         | X                          |
| Phosphoric acid, dibutyl ester<br>107-66-4        | X                          |
| Formaldehyde<br>50-00-0                           | X                          |

| Chemical name                       | New Jersey |
|-------------------------------------|------------|
| 1-Butanol<br>71-36-3                | X          |
| Dipropylene glycol monomethyl ether | X          |

|   |   |
|---|---|
| 34590-94-8                                    |   |
| Ethylene glycol monopropyl ether<br>2807-30-9 | X |
| 2-Butoxyethanol<br>111-76-2                   | X |
| Carbon black<br>1333-86-4                     | X |
| Phosphoric acid, dibutyl ester<br>107-66-4    | X |
| Formaldehyde<br>50-00-0                       | X |

| Chemical name                                     | Pennsylvania |
|---|--------------|
| 1-Butanol<br>71-36-3                              | X            |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | X            |
| Ethylene glycol monopropyl ether<br>2807-30-9     | X            |
| 2-Butoxyethanol<br>111-76-2                       | X            |
| Carbon black<br>1333-86-4                         | X            |
| Phosphoric acid, dibutyl ester<br>107-66-4        | X            |
| Formaldehyde<br>50-00-0                           | X            |

**California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

| Chemical name | California Proposition 65 |
|---------------|---------------------------|
| Carbon black  | Carcinogen                |
| Formaldehyde  | Carcinogen                |

*This product contains carbon black in a non-respirable form. Inhalation of carbon black is unlikely to occur from exposure to this product*

**Canada**

| Chemical name                                     | NPRI - National Pollutant Release Inventory   |
|---|---|
| 1-Butanol<br>71-36-3                              | Part 1, Group A Substance<br>Part 4 Substance - Criteria Air Contaminants   |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements<br>Part 4 Substance - Criteria Air Contaminants                              |
| Ethylene glycol monopropyl ether<br>2807-30-9     | Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements<br>Part 4 Substance - Criteria Air Contaminants                              |
| 2-Butoxyethanol<br>111-76-2                       | Part 1, Group A Substance<br>Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements<br>Part 4 Substance - Criteria Air Contaminants |
| Formaldehyde<br>50-00-0                           | Part 1, Group A Substance<br>Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements<br>Part 4 Substance - Criteria Air Contaminants |

**16. OTHER INFORMATION**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average)

STEL  
Ceiling

STEL (Short Term Exposure Limit)  
Maximum limit value

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A1 - Known Human Carcinogen  
A2 - Suspected Human Carcinogen  
A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans  
Group 2A - Probably Carcinogenic to Humans  
Group 2B - Possibly Carcinogenic to Humans  
Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen  
Reasonably Anticipated to be a Human Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Revision Date**

Nov-13-2023

**Pursuant to NOM-018-STPS-2015**

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**