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2.8

## 1. IDENTIFICATION

### Product identifier

Product code **8450**  
 Product name **Barrier White**  
 Product category **8400 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) |
| Carcinogenicity                   | Category 2 - (H351) |
| Aspiration hazard                 | Category 1 - (H304) |
| Chronic aquatic toxicity          | Category 3 - (H412) |
| Flammable liquids                 | Category 3 - (H226) |

### Label elements



Signal word  
Danger

### Hazard statements

H226 - Flammable liquid and vapor  
 H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation  
 H318 - Causes serious eye damage  
 H351 - Suspected of causing cancer  
 H412 - Harmful to aquatic life with long lasting effects

#### Precautionary Statements

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  
 P331 - Do NOT induce vomiting  
 P403 + P235 - Store in a well-ventilated place. Keep cool

#### Hazards not otherwise classified (HNOC)

Harmful to aquatic life.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

| Chemical name                              | CAS No.    | Weight-%  | Trade secret | Note |
|--|------------|-----------|--------------|------|
| Titanium Dioxide                           | 13463-67-7 | 30 - 60   | *            |      |
| Solvent naphtha, petroleum, heavy aromatic | 64742-94-5 | 10 - 30   | *            |      |
| Cyclohexanone                              | 108-94-1   | 10 - 30   | *            |      |
| Barium sulfate                             | 7727-43-7  | 5 - 10    | *            |      |
| Butyrolactone                              | 96-48-0    | 1 - 5     | *            |      |
| Solvent naphtha, petroleum, light aromatic | 64742-95-6 | 1 - 5     | *            |      |
| 1,2,4-Trimethylbenzene (constituent)       | 95-63-6    | 1 - 5     | *            | 1    |
| Silicon dioxide, amorphous                 | 7631-86-9  | 1 - 5     | *            |      |
| Naphthalene (constituent)                  | 91-20-3    | 1 - 5     | *            | 1    |
| 1,3,5-Trimethylbenzene (constituent)       | 108-67-8   | 0.1 - < 1 | *            | 1    |

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

#### Note

1. Hazardous Constituent contained in Complex Substance(s) required for disclosure

### 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**

| Chemical name                  | ACGIH TLV  |
|--------------------------------|--|
| Titanium Dioxide<br>13463-67-7 | TWA: 0.2 mg/m <sup>3</sup> nanoscale respirable particulate matter<br>TWA: 2.5 mg/m <sup>3</sup> finescale respirable particulate matter |

|  |   |
|--|---|
| Cyclohexanone<br>108-94-1                        | TWA: 20 ppm<br>STEL: 50 ppm<br>Skin   |
| Barium sulfate<br>7727-43-7                      | TWA: 5 mg/m <sup>3</sup> inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6  | TWA: 10 ppm   |
| Naphthalene (constituent)<br>91-20-3             | TWA: 10 ppm<br>Skin   |
| 1,3,5-Trimethylbenzene (constituent)<br>108-67-8 | TWA: 10 ppm   |

| Chemical name                        | OSHA PEL   |
|--------------------------------------|--|
| Titanium Dioxide<br>13463-67-7       | TWA: 15 mg/m <sup>3</sup> total dust   |
| Cyclohexanone<br>108-94-1            | TWA: 50 ppm<br>TWA: 200 mg/m <sup>3</sup>  |
| Barium sulfate<br>7727-43-7          | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction |
| Naphthalene (constituent)<br>91-20-3 | TWA: 10 ppm<br>TWA: 50 mg/m <sup>3</sup>   |

| Chemical name                           | OSHA PEL (vacated)   |
|---|--|
| Titanium Dioxide<br>13463-67-7          | TWA: 10 mg/m <sup>3</sup> total dust   |
| Cyclohexanone<br>108-94-1               | TWA: 25 ppm<br>TWA: 100 mg/m <sup>3</sup><br>Skin                                      |
| Barium sulfate<br>7727-43-7             | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction   |
| Silicon dioxide, amorphous<br>7631-86-9 | TWA: 6 mg/m <sup>3</sup>   |
| Naphthalene (constituent)<br>91-20-3    | TWA: 10 ppm<br>TWA: 50 mg/m <sup>3</sup><br>STEL: 15 ppm<br>STEL: 75 mg/m <sup>3</sup> |

| Chemical name                        | Ontario TWAEV   |
|--------------------------------------|---|
| Titanium Dioxide<br>13463-67-7       | TWA: 10 mg/m <sup>3</sup>                             |
| Cyclohexanone<br>108-94-1            | TWA: 20 ppm<br>STEL: 50 ppm<br>Skin                   |
| Barium sulfate<br>7727-43-7          | TWA: 5 mg/m <sup>3</sup> inhalable particulate matter |
| Naphthalene (constituent)<br>91-20-3 | TWA: 10 ppm<br>Skin                                   |

| Chemical name                        | Mexico OEL (TWA)                           |
|--------------------------------------|--|
| Titanium Dioxide<br>13463-67-7       | TWA/VLE-PPT: 10 mg/m <sup>3</sup>          |
| Cyclohexanone<br>108-94-1            | TWA/VLE-PPT: 20 ppm<br>STEL/PPT-CT: 50 ppm |
| Barium sulfate<br>7727-43-7          | TWA/VLE-PPT: 10 mg/m <sup>3</sup>          |
| Naphthalene (constituent)<br>91-20-3 | TWA/VLE-PPT: 10 ppm<br>STEL/PPT-CT: 15 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**

|                                       |  |
|---------------------------------------|--|
| <b>Eye/Face Protection</b>            | 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.   |
| <b>Skin Protection</b>                | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.   |
| <b>Hand Protection</b>                | Chemical resistant protective gloves.<br>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<br>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.<br>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. |
| <b>Respiratory Protection</b>         | 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.  |
| <b>General Hygiene Considerations</b> | 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> |                          |
| pH  |                          | 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>                            | 44 °C / 111 °F           | Tag closed cup          |                          |
| <b>Evaporation rate</b>                       |                          | No data available       |                          |
| <b>Flammability Limit in Air</b>              |                          |                         |                          |
| Upper flammability limit                      |                          | No data available       |                          |
| Lower flammability limit                      |                          | No data available       |                          |
| <b>Vapor Pressure</b>                         |                          | No data available       |                          |
| <b>Vapor Density</b>                          |                          | No data available       |                          |
| <b>Specific Gravity</b>                       | 1.52                     |                         |                          |
| <b>Water Solubility</b>                       |                          | No data available       |                          |
| <b>Solubility in other solvents</b>           |                          | No data available       |                          |
| <b>Partition coefficient: n-octanol/water</b> |                          | No data available       |                          |
| <b>Autoignition Temperature</b>               | No information available | No data available       |                          |
| <b>Hyphen</b>                                 |                          | No data available       |                          |
| <b>Kinematic viscosity</b>                    |                          | No data available       |                          |
| <b>Dynamic viscosity</b>                      |                          | No data available       |                          |
| <b>Explosive Properties</b>                   | No data available        |                         |                          |

**Oxidizing Properties** No data available

**Other information**

**Photochemically Reactive** Yes  
**Weight Per Gallon (lbs/gal)** 12.71

| VOC by weight %<br>(less water) | VOC by volume %<br>(less water) | VOC lbs/gal<br>(less water) | VOC grams/liter<br>(less water) |
|---------------------------------|---------------------------------|-----------------------------|---------------------------------|
| 37.53                           | 55.15                           | 4.77                        | 572.08                          |

## 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              |
|--|------------------------|
| Titanium Dioxide<br>13463-67-7                           | > 10000 mg/kg ( Rat )  |
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5 | > 5000 mg/kg ( Rat )   |
| Cyclohexanone<br>108-94-1                                | = 1544 mg/kg ( Rat )   |
| Barium sulfate<br>7727-43-7                              | = 307000 mg/kg ( Rat ) |
| Butyrolactone<br>96-48-0                                 | = 1540 mg/kg ( Rat )   |
| Solvent naphtha, petroleum, light aromatic<br>64742-95-6 | = 8400 mg/kg ( Rat )   |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6          | = 3280 mg/kg ( Rat )   |
| Silicon dioxide, amorphous<br>7631-86-9                  | = 7900 mg/kg ( Rat )   |
| Naphthalene (constituent)<br>91-20-3                     | = 1110 mg/kg ( Rat )   |

| Chemical name | Dermal LD50 |
|---------------|-------------|
|---------------|-------------|

|  |                         |
|--|-------------------------|
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5 | > 2000 mg/kg ( Rabbit ) |
| Cyclohexanone<br>108-94-1                                | = 947 mg/kg ( Rabbit )  |
| Butyrolactone<br>96-48-0                                 | > 5640 mg/kg ( Rabbit ) |
| Solvent naphtha, petroleum, light aromatic<br>64742-95-6 | > 2000 mg/kg ( Rabbit ) |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6          | > 3160 mg/kg ( Rabbit ) |
| Silicon dioxide, amorphous<br>7631-86-9                  | > 5000 mg/kg ( Rabbit ) |
| Naphthalene (constituent)<br>91-20-3                     | = 1120 mg/kg ( Rabbit ) |

| Chemical name  | Inhalation LC50                      |
|--|--------------------------------------|
| Titanium Dioxide<br>13463-67-7                           | = 5.09 mg/L ( Rat ) 4 h              |
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5 | > 590 mg/m <sup>3</sup> ( Rat ) 4 h  |
| Cyclohexanone<br>108-94-1                                | > 6.2 mg/L ( Rat ) 4 h               |
| Butyrolactone<br>96-48-0                                 | > 5100 mg/m <sup>3</sup> ( Rat ) 4 h |
| Solvent naphtha, petroleum, light aromatic<br>64742-95-6 | = 3400 ppm ( Rat ) 4 h               |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6          | = 18 g/m <sup>3</sup> ( Rat ) 4 h    |
| Silicon dioxide, amorphous<br>7631-86-9                  | > 58.8 mg/L ( Rat ) 4 h              |
| Naphthalene (constituent)<br>91-20-3                     | > 0.4 mg/L ( Rat ) 4 h               |
| 1,3,5-Trimethylbenzene (constituent)<br>108-67-8         | = 24 g/m <sup>3</sup> ( 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.

**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. Suspected of causing 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. May be fatal if swallowed and enters airways. (based on components).

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

| Chemical name                  | ACGIH |
|--------------------------------|-------|
| Titanium Dioxide<br>13463-67-7 | A3    |
| Cyclohexanone<br>108-94-1      | A3    |

|                                      |                        |
|--------------------------------------|------------------------|
| Naphthalene (constituent)<br>91-20-3 | A3                     |
| <b>Chemical name</b>                 | <b>IARC</b>            |
| Titanium Dioxide<br>13463-67-7       | Group 2B               |
| Naphthalene (constituent)<br>91-20-3 | Group 2B               |
| <b>Chemical name</b>                 | <b>NTP</b>             |
| Naphthalene (constituent)<br>91-20-3 | Reasonably Anticipated |
| <b>Chemical name</b>                 | <b>OSHA</b>            |
| Titanium Dioxide<br>13463-67-7       | X                      |
| Naphthalene (constituent)<br>91-20-3 | 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>                 | 8,901.30 mg/kg |
| <b>ATEmix (dermal)</b>               | 9,817.90 mg/kg |
| <b>ATEmix (inhalation-gas)</b>       | 99,999.00      |
| <b>ATEmix (inhalation-dust/mist)</b> | 11.90 mg/l     |
| <b>ATEmix (inhalation-vapor)</b>     | 87.00 mg/l     |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Specific test data for the substance or mixture is not available. Harmful to aquatic life with long lasting effects. (based on components).

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

| Chemical name                           | Algae/aquatic plants  |
|---|---|
| Butyrolactone<br>96-48-0                | 96h EC50 <i>Desmodesmus subspicatus</i> : = 79 mg/L<br>72h EC50 <i>Desmodesmus subspicatus</i> : = 360 mg/L |
| Silicon dioxide, amorphous<br>7631-86-9 | 72h EC50 <i>Pseudokirchneriella subcapitata</i> : = 440 mg/L  |

| Chemical name  | Fish   |
|--|--|
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5 | 96h LC50 <i>Pimephales promelas</i> : = 19 mg/L (static)<br>96h LC50 <i>Oncorhynchus mykiss</i> : = 2.34 mg/L<br>96h LC50 <i>Lepomis macrochirus</i> : = 1740 mg/L (static)<br>96h LC50 <i>Pimephales promelas</i> : = 45 mg/L (flow-through)<br>96h LC50 <i>Pimephales promelas</i> : = 41 mg/L |
| Cyclohexanone<br>108-94-1                                | 96h LC50 <i>Pimephales promelas</i> : 481 - 578 mg/L (flow-through)<br>96h LC50 <i>Pimephales promelas</i> : = 8.9 mg/L  |
| Butyrolactone<br>96-48-0                                 | 96h LC50 <i>Lepomis macrochirus</i> : = 56 mg/L (static)   |
| Solvent naphtha, petroleum, light aromatic<br>64742-95-6 | 96h LC50 <i>Oncorhynchus mykiss</i> : = 9.22 mg/L  |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6          | 96h LC50 <i>Pimephales promelas</i> : 7.19 - 8.28 mg/L (flow-through)  |
| Silicon dioxide, amorphous<br>7631-86-9                  | 96h LC50 <i>Brachydanio rerio</i> : = 5000 mg/L (static)   |
| Naphthalene (constituent)                                | 96h LC50 <i>Oncorhynchus mykiss</i> : = 1.6 mg/L (flow-through)  |



|  |   |
|--|---|
| 91-20-3  | 96h LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L (static)<br>96h LC50 Pimephales promelas: = 1.99 mg/L (static)<br>96h LC50 Lepomis macrochirus: = 31.0265 mg/L (static)<br>96h LC50 Pimephales promelas: 5.74 - 6.44 mg/L (flow-through) |
| 1,3,5-Trimethylbenzene (constituent)<br>108-67-8 | 96h LC50 Pimephales promelas: = 3.48 mg/L   |

| Chemical name  | Crustacea   |
|--|---|
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5 | 48h EC50 Daphnia magna: = 0.95 mg/L   |
| Butyrolactone<br>96-48-0                                 | 48h EC50 Daphnia magna Straus: > 500 mg/L   |
| Solvent naphtha, petroleum, light aromatic<br>64742-95-6 | 48h EC50 Daphnia magna: = 6.14 mg/L   |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6          | 48h EC50 Daphnia magna: = 6.14 mg/L   |
| Silicon dioxide, amorphous<br>7631-86-9                  | 48h EC50 Ceriodaphnia dubia: = 7600 mg/L  |
| Naphthalene (constituent)<br>91-20-3                     | 48h EC50 Daphnia magna: 1.09 - 3.4 mg/L Static<br>48h EC50 Daphnia magna: = 1.96 mg/L Flow through<br>48h LC50 Daphnia magna: = 2.16 mg/L |

**Persistence and Degradability**

No information available.

**Bioaccumulation**

| Chemical name  | Partition coefficient |
|--|-----------------------|
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5 | 2.9 - 6.1             |
| Cyclohexanone<br>108-94-1                                | 0.86                  |
| Butyrolactone<br>96-48-0                                 | -0.566                |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6          | 3.63                  |
| Naphthalene (constituent)<br>91-20-3                     | 3.6                   |

### 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** UN1210  
**Proper Shipping Name** Printing Ink  
**Transport hazard class(es)** 3  
**Packing Group** III

**ICAO / IATA / IMDG / IMO**

**UN/ID no** UN1210  
**Proper Shipping Name** Printing Ink  
**Transport hazard class(es)** 3  
**Packing Group** 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 % |
|--------------------------------------|---------|----------|-------------------------------|
| 1,2,4-Trimethylbenzene (constituent) | 95-63-6 | 1 - 5    | 1.0                           |
| Naphthalene (constituent)            | 91-20-3 | 1 - 5    | 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-% |
|---------------------------|---------|----------|
| Naphthalene (constituent) | 91-20-3 | 1 - 5    |

**US State Regulations**

| Chemical name                                    | Massachusetts |
|--|---------------|
| Titanium Dioxide<br>13463-67-7                   | X             |
| Cyclohexanone<br>108-94-1                        | X             |
| Barium sulfate<br>7727-43-7                      | X             |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6  | X             |
| Silicon dioxide, amorphous<br>7631-86-9          | X             |
| Naphthalene (constituent)<br>91-20-3             | X             |
| 1,3,5-Trimethylbenzene (constituent)<br>108-67-8 | X             |

| Chemical name                  | Minnesota<br>Right To Know |
|--------------------------------|----------------------------|
| Titanium Dioxide<br>13463-67-7 | X                          |
| Cyclohexanone<br>108-94-1      | X                          |
| Barium sulfate                 | X                          |

|   |   |
|---|---|
| 7727-43-7                                       |   |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6 | X |
| Silicon dioxide, amorphous<br>7631-86-9         | X |
| Naphthalene (constituent)<br>91-20-3            | X |

| Chemical name                                   | New Jersey |
|---|------------|
| Titanium Dioxide<br>13463-67-7                  | X          |
| Cyclohexanone<br>108-94-1                       | X          |
| Barium sulfate<br>7727-43-7                     | X          |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6 | X          |
| Naphthalene (constituent)<br>91-20-3            | X          |

| Chemical name                                   | Pennsylvania |
|---|--------------|
| Titanium Dioxide<br>13463-67-7                  | X            |
| Cyclohexanone<br>108-94-1                       | X            |
| Barium sulfate<br>7727-43-7                     | X            |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6 | X            |
| Silicon dioxide, amorphous<br>7631-86-9         | X            |
| Naphthalene (constituent)<br>91-20-3            | 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 |
|---------------------------|---------------------------|
| Titanium Dioxide          | Carcinogen                |
| Naphthalene (constituent) | Carcinogen                |

**Canada**

| Chemical name  | NPRI - National Pollutant Release Inventory   |
|--|---|
| Solvent naphtha, petroleum, heavy aromatic<br>64742-94-5 | Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements<br>Part 4 Substance - Criteria Air Contaminants                              |
| Cyclohexanone<br>108-94-1                                | Part 4 Substance - Criteria Air Contaminants  |
| Butyrolactone<br>96-48-0                                 | Part 4 Substance - Criteria Air Contaminants  |
| Solvent naphtha, petroleum, light aromatic<br>64742-95-6 | Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements  |
| 1,2,4-Trimethylbenzene (constituent)<br>95-63-6          | Part 1, Group A Substance<br>Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements<br>Part 4 Substance - Criteria Air Contaminants |
| Naphthalene (constituent)<br>91-20-3                     | Part 1, Group A Substance<br>Part 4 Substance - Criteria Air Contaminants   |
| 1,3,5-Trimethylbenzene (constituent)<br>108-67-8         | 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    | STEL (Short Term Exposure Limit) |
| Ceiling | 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-28-2023

**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**