

# SAFETY DATA SHEET

**FTX2 INDUSTRIAL PAINT MARKERS ISSUE DATE: 28-JUL-2015**

## Section 1. Identification

|   |   |
|---|---|
| <b>GHS product identifier</b>                               | : FTX2 YELLOW INDUSTRIAL PAINT  |
| <b>Other means of identification</b>                        | : MARKER OIL-BASED PAINT MARKER   |
| <b>Product type</b>   | : PAINT MARKER  |
| <b>Product code</b>   | : FTX2-YL   |
| <br>  |   |
| <b>Identified uses</b>                                      | : MARKING FOR MOST SURFACES   |
| <br>  |   |
| <b>Supplier's details</b>                                   | : Universal Stenciling & Marking Systems, Inc.<br>205 15th Avenue S.E.<br>Saint Petersburg, FL 33701<br>Tel: 727-894-3027 |
| <br>  |   |
| <b>Emergency telephone number (with hours of operation)</b> | : 24-hour Emergency Phone: Chemtrec 1-800-424-9300 (USA only)<br>1-703-527-3887 (International)                           |

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**This SDS reflects the health, physical and environmental hazards of the liquid ink contained within the pen/ marker. Because of the nature of the finished product i.e. the fact that the ink is held internally within the pen/ marker inside a closed (sealed) container, and given that the liquid is present in a small quantity and is released in very small amounts during normal use, the user of the product and/or the reader of this SDS should consider the potential exposure to the ink to be minimal and controlled during the normal use of the product. Refer to relevant sections of the SDS (7 and 13) for additional information on handling and disposal considerations. To avoid any potential hazard and to minimize the risk of exposure, it is important that the user of the product does NOT open, heat, burn or expose it to a source of intense heat, as this could release the ink.**

**Classification of the substance or mixture** : Not classified.

**GHS label elements**

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : Not available.

### CAS number/other identifiers

**CAS number** : Not applicable.  
**Product code** : Not available.

| Ingredient name  | %       | CAS number |
|------------------|---------|------------|
| Xylene           | 30 - 60 | 1330-20-7  |
| m-Xylene         | 30 - 60 | 108-38-3   |
| Titanium dioxide | 10 - 30 | 13463-67-7 |
| p-Xylene         | 10 - 30 | 106-42-3   |
| Ethylbenzene     | 5 - 10  | 100-41-4   |
| o-Xylene         | 5 - 10  | 95-47-6    |
| Carbon black     | 5 - 10  | 1333-86-4  |
| Toluene          | 0.1 - 1 | 108-88-3   |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

Under normal conditions of use first aid is not required.

**Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately.  
**Inhalation** : If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
**Skin contact** : Wash skin with soap and water. Get medical attention if irritation develops and persists.  
**Ingestion** : IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically.  
**Specific treatments** : No specific treatment.  
**Protection of first-aiders** : No special measures required.



## Section 4. First aid measures

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : Not applicable.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
Sulfur oxides  
halogenated compounds  
metal oxide/oxides

**Special protective actions for fire-fighters** : No special measures are required.

**Special protective equipment for fire-fighters** : No special protection is required.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : Provide adequate ventilation.

**For emergency responders** : Not applicable.

**Environmental precautions** : Not applicable.

### Methods and materials for containment and cleaning up

**Spill** : Not applicable.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Workers should wash hands and face before eating, drinking and smoking.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.



## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name  | Exposure limits   |
|------------------|---|
| Xylene           | <p><b>ACGIH TLV (United States, 4/2014).</b><br/>           STEL: 651 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 150 ppm 15 minutes.<br/>           TWA: 434 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 100 ppm 8 hours.</p>  |
| m-Xylene         | <p><b>OSHA PEL (United States, 2/2013).</b><br/>           TWA: 100 ppm 8 hours.<br/>           TWA: 435 mg/m<sup>3</sup> 8 hours.</p> <p><b>ACGIH TLV (United States, 2/2010).</b><br/>           STEL: 651 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 150 ppm 15 minutes.<br/>           TWA: 434 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 100 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 6/2009).</b><br/>           STEL: 655 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 150 ppm 15 minutes.<br/>           TWA: 435 mg/m<sup>3</sup> 10 hours.<br/>           TWA: 100 ppm 10 hours.</p> <p><b>OSHA PEL (United States, 6/2010).</b><br/>           TWA: 435 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 100 ppm 8 hours.</p> <p><b>ACGIH TLV (United States, 1/2005).</b><br/>           STEL: 651 mg/m<sup>3</sup> 15 minutes. Form: All forms.<br/>           STEL: 150 ppm 15 minutes. Form: All forms.<br/>           TWA: 434 mg/m<sup>3</sup> 8 hours. Form: All forms.<br/>           TWA: 100 ppm 8 hours. Form: All forms.</p> <p><b>NIOSH REL (United States, 12/2001).</b><br/>           STEL: 655 mg/m<sup>3</sup> 15 minutes. Form: All forms.<br/>           STEL: 150 ppm 15 minutes. Form: All forms.<br/>           TWA: 435 mg/m<sup>3</sup> 10 hours. Form: All forms.<br/>           TWA: 100 ppm 10 hours. Form: All forms.</p> <p><b>OSHA PEL (United States, 8/1997).</b><br/>           TWA: 435 mg/m<sup>3</sup> 8 hours. Form: All forms.<br/>           TWA: 100 ppm 8 hours. Form: All forms.</p> |
| Titanium dioxide | <p><b>OSHA PEL (United States, 2/2013).</b><br/>           TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>   |
| p-Xylene         | <p><b>ACGIH TLV (United States, 4/2014).</b><br/>           TWA: 10 mg/m<sup>3</sup> 8 hours.</p> <p><b>ACGIH TLV (United States, 2/2010).</b><br/>           STEL: 651 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 150 ppm 15 minutes.<br/>           TWA: 434 mg/m<sup>3</sup> 8 hours.</p> <p><b>NIOSH REL (United States, 6/2009).</b><br/>           STEL: 655 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 150 ppm 15 minutes.<br/>           TWA: 435 mg/m<sup>3</sup> 10 hours.<br/>           TWA: 100 ppm 10 hours.</p> <p><b>OSHA PEL (United States, 6/2010).</b><br/>           TWA: 435 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 100 ppm 8 hours.</p>   |
| Ethylbenzene     | <p><b>ACGIH TLV (United States, 4/2014).</b><br/>           TWA: 20 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b><br/>           STEL: 545 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 125 ppm 15 minutes.<br/>           TWA: 435 mg/m<sup>3</sup> 10 hours.<br/>           TWA: 100 ppm 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b><br/>           TWA: 435 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 100 ppm 8 hours.</p>   |
| o-Xylene         | <p><b>ACGIH TLV (United States, 2/2010).</b><br/>           STEL: 651 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 150 ppm 15 minutes.<br/>           TWA: 434 mg/m<sup>3</sup> 8 hours.</p>   |



## Section 8. Exposure controls/personal protection

|              |  |
|--------------|--|
| Carbon black | <p>TWA: 100 ppm 8 hours.<br/> <b>NIOSH REL (United States, 6/2009).</b><br/>         STEL: 655 mg/m<sup>3</sup> 15 minutes.<br/>         STEL: 150 ppm 15 minutes.<br/>         TWA: 435 mg/m<sup>3</sup> 10 hours.<br/>         TWA: 100 ppm 10 hours.<br/> <b>OSHA PEL (United States, 6/2010).</b><br/>         TWA: 435 mg/m<sup>3</sup> 8 hours.<br/>         TWA: 100 ppm 8 hours.<br/> <b>ACGIH TLV (United States, 4/2014).</b><br/>         TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction.</p>  |
| Toluene      | <p><b>NIOSH REL (United States, 10/2013).</b><br/>         TWA: 3.5 mg/m<sup>3</sup> 10 hours.<br/>         TWA: 0.1 mg of PAHs/cm<sup>3</sup> 10 hours.<br/> <b>OSHA PEL (United States, 2/2013).</b><br/>         TWA: 3.5 mg/m<sup>3</sup> 8 hours.<br/> <b>NIOSH REL (United States, 10/2013).</b><br/>         STEL: 560 mg/m<sup>3</sup> 15 minutes.<br/>         STEL: 150 ppm 15 minutes.<br/>         TWA: 375 mg/m<sup>3</sup> 10 hours.<br/>         TWA: 100 ppm 10 hours.<br/> <b>OSHA PEL Z2 (United States, 2/2013).</b><br/>         AMP: 500 ppm 10 minutes.<br/>         CEIL: 300 ppm<br/>         TWA: 200 ppm 8 hours.<br/> <b>ACGIH TLV (United States, 4/2014).</b><br/>         TWA: 20 ppm 8 hours.</p> |

**Appropriate engineering controls** : No special ventilation requirements.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

**Hygiene measures** : Follow good industrial hygiene practice.

**Eye/face protection** : No special measures are required.

#### Skin protection

**Hand protection** : Not required for normal use of the pen/marker.

**Body protection** : Not required for normal use of the pen/marker.

**Other skin protection** : Not required for normal use of the pen/marker.

**Respiratory protection** : Not required for normal use of the pen/marker.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : Liquid. [in cylindrical marker]

**Color** : Colored, opaque liquid.

**Odor** : Hydrocarbon.

**Odor threshold** : Not available.

**pH** : Not available.

**Melting point** : Not available.

**Boiling point** : 119 to 207°C (246.2 to 404.6°F)

**Flash point** : Closed cup: 24 to 29°C (75.2 to 84.2°F)

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Not available.



## Section 9. Physical and chemical properties

|   |   |
|---|---|
| <b>Lower and upper explosive (flammable) limits</b> | : Lower: 1%<br>Upper: 7%  |
| <b>Vapor pressure</b>                               | : 0.67 to 0.93 kPa (5 to 7 mm Hg) [room temperature]              |
| <b>Vapor density</b>                                | : >1 [Air = 1]  |
| <b>Relative density</b>                             | : 0.9   |
| <b>Solubility</b>                                   | : Insoluble in the following materials: cold water and hot water. |
| <b>Partition coefficient: n-octanol/water</b>       | : Not available.  |
| <b>Auto-ignition temperature</b>                    | : Not available.  |
| <b>Decomposition temperature</b>                    | : Not available.  |
| <b>Viscosity</b>                                    | : Not available.  |
| <b>Volatility</b>                                   | : 40 to 65% (v/v)   |

## Section 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| <b>Chemical stability</b>                 | : The product is stable.   |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame).   |
| <b>Incompatible materials</b>             | : Not applicable.  |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                | Species | Dose                | Exposure |
|-------------------------|-----------------------|---------|---------------------|----------|
| Xylene                  | LC50 Inhalation Gas.  | Rat     | 5000 ppm            | 4 hours  |
| m-Xylene                | LD50 Oral             | Rat     | 4300 mg/kg          | -        |
| p-Xylene                | LD50 Oral             | Rat     | 4988 mg/kg          | -        |
|                         | LC50 Inhalation Gas.  | Rat     | 4550 ppm            | 4 hours  |
|                         | LD50 Oral             | Rat     | 3910 mg/kg          | -        |
| Ethylbenzene            | LD50 Dermal           | Rabbit  | >5000 mg/kg         | -        |
|                         | LD50 Oral             | Rat     | 3500 mg/kg          | -        |
| o-Xylene                | LD50 Oral             | Rat     | 3567 mg/kg          | -        |
| Carbon black            | LD50 Oral             | Rat     | >15400 mg/kg        | -        |
| Toluene                 | LC50 Inhalation Vapor | Rat     | 49 g/m <sup>3</sup> | 4 hours  |
|                         | LD50 Oral             | Rat     | 636 mg/kg           | -        |

#### Irritation/Corrosion



## Section 11. Toxicological information

| Product/ingredient name | Result                   | Species | Score | Exposure           | Observation |
|-------------------------|--------------------------|---------|-------|--------------------|-------------|
| Xylene                  | Eyes - Mild irritant     | Rabbit  | -     | 87 mg              | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5 mg      | -           |
|                         | Skin - Mild irritant     | Rat     | -     | 8 hours 60 µL      | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg    | -           |
| m-Xylene                | Skin - Moderate irritant | Rabbit  | -     | 100%               | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5 mg      | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg     | -           |
|                         | Skin - Severe irritant   | Rabbit  | -     | 24 hours 10 µg     | -           |
| Titanium dioxide        | Skin - Mild irritant     | Human   | -     | 72 hours 300 µg    | -           |
|                         |                          |         |       | Intermittent       |             |
| Ethylbenzene            | Eyes - Severe irritant   | Rabbit  | -     | 500 mg             | -           |
| Toluene                 | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 mg     | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 0.5 minutes 100 mg | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg     | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 870 µg             | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 mg      | -           |
|                         | Skin - Mild irritant     | Pig     | -     | 24 hours 250 µL    | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 435 mg             | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 500 mg             | -           |

### Sensitization

There is no data available.

### Carcinogenicity

#### Classification

| Product/ingredient name | OSHA | IARC | NTP | ACGIH | EPA | NIOSH |
|-------------------------|------|------|-----|-------|-----|-------|
| Xylene                  | -    | 3    | -   | A4    | -   | -     |
| m-Xylene                | -    | 3    | -   | A4    | -   | -     |
| Titanium dioxide        | -    | 2B   | -   | A4    | -   | +     |
| p-Xylene                | -    | 3    | -   | A4    | -   | -     |
| Ethylbenzene            | -    | 2B   | -   | A3    | -   | None. |
| o-Xylene                | -    | 3    | -   | A4    | -   | -     |
| Carbon black            | -    | 2B   | -   | A3    | -   | +     |
| Silicon dioxide         | -    | 3    | -   | -     | -   | -     |

### Specific target organ toxicity (single exposure)

| Name    | Category   | Route of exposure | Target organs    |
|---------|------------|-------------------|------------------|
| Toluene | Category 3 | Not applicable.   | Narcotic effects |

### Specific target organ toxicity (repeated exposure)

| Name    | Category   | Route of exposure | Target organs  |
|---------|------------|-------------------|----------------|
| Toluene | Category 2 | Not determined    | Not determined |

### Aspiration hazard

| Name    | Result                         |
|---------|--------------------------------|
| Toluene | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Ingestion** : No known significant effects or critical hazards.

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

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

#### Potential chronic health effects

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

There is no data available.

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                              | Species   | Exposure |
|-------------------------|-------------------------------------|---|----------|
| Xylene                  | Acute IC50 10 mg/L                  | Algae   | 72 hours |
|                         | Acute LC50 8500 µg/L Marine water   | Crustaceans - Palaemonetes pugio                                    | 48 hours |
| m-Xylene                | Acute LC50 13400 µg/L Fresh water   | Fish - Pimephales promelas  | 96 hours |
|                         | Acute EC50 4900 µg/L Fresh water    | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|                         | Acute EC50 7090 µg/L Fresh water    | Crustaceans - Artemia sp. - Nauplii                                 | 48 hours |
|                         | Acute EC50 5000 µg/L Fresh water    | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|                         | Acute LC50 8400 µg/L Fresh water    | Fish - Oncorhynchus mykiss  | 96 hours |
| Titanium dioxide        | Acute EC50 5.83 mg/L Fresh water    | Algae - Pseudokirchneriella subcapitata - Exponential growth phase  | 72 hours |
|                         | Acute LC50 3 mg/L Fresh water       | Crustaceans - Ceriodaphnia dubia - Neonate                          | 48 hours |
|                         | Acute LC50 5.5 ppm Fresh water      | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
|                         | Acute LC50 1000 mg/L Fresh water    | Fish - Pimephales promelas  | 96 hours |
|                         | Chronic NOEC 0.984 mg/L Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential growth phase  | 72 hours |
| p-Xylene                | Acute EC50 3200 µg/L Fresh water    | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|                         | Acute EC50 5030 µg/L Fresh water    | Daphnia - Daphnia magna - Neonate                                   | 48 hours |





## Section 12. Ecological information

|              |                                      |   |          |
|--------------|--------------------------------------|---|----------|
| Ethylbenzene | Acute LC50 2 ul/L Marine water       | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
|              | Acute EC50 4600 µg/L Fresh water     | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
| o-Xylene     | Acute EC50 3600 µg/L Fresh water     | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
|              | Acute EC50 2970 µg/L Fresh water     | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|              | Acute LC50 5200 µg/L Marine water    | Crustaceans - Americamysis bahia                                    | 48 hours |
|              | Acute LC50 4200 µg/L Fresh water     | Fish - Oncorhynchus mykiss  | 96 hours |
| Toluene      | Chronic NOEC 1000 µg/L Fresh water   | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
|              | Acute EC50 4700 µg/L Fresh water     | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|              | Acute EC50 1390 µg/L Fresh water     | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|              | Acute LC50 38000 µg/L Marine water   | Crustaceans - Cancer magister - Zoea                                | 48 hours |
| Toluene      | Acute LC50 7600 µg/L Fresh water     | Fish - Oncorhynchus mykiss  | 96 hours |
|              | Acute EC50 433 ppm Marine water      | Algae - Skeletonema costatum  | 96 hours |
|              | Acute EC50 12500 µg/L Fresh water    | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|              | Acute EC50 11600 µg/L Fresh water    | Crustaceans - Gammarus pseudolimnaeus - Adult                       | 48 hours |
|              | Acute EC50 6000 µg/L Fresh water     | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
|              | Acute LC50 5500 µg/L Fresh water     | Fish - Oncorhynchus kisutch - Fry                                   | 96 hours |
|              | Chronic NOEC 500000 µg/L Fresh water | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
|              | Chronic NOEC 1000 µg/L Fresh water   | Daphnia - Daphnia magna   | 21 days  |

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------|--------------------|-------------|-----------|
| Xylene                  | 3.12               | 8.1 to 25.9 | low       |
| m-Xylene                | 3.2                | 8.1 to 25.9 | low       |
| Titanium dioxide        | -                  | 352         | low       |
| p-Xylene                | 3.15               | 8.1 to 25.9 | low       |
| Ethylbenzene            | 3.6                | -           | low       |
| o-Xylene                | 3.12               | 8.1 to 25.9 | low       |
| Toluene                 | 2.73               | 90          | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations





**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Dispose material in accordance with all local, state, and federal regulations.

### United States - RCRA Toxic hazardous waste "U" List

| Ingredient | CAS #     | Status | Reference number |
|------------|-----------|--------|------------------|
| Xylene     | 1330-20-7 | Listed | U239             |
| p-Xylene   | 106-42-3  | Listed | U239             |
| m-Xylene   | 108-38-3  | Listed | U239             |
| o-Xylene   | 95-47-6   | Listed | U239             |



## Section 14. Transport information

|                            | DOT Classification   | IMDG   | IATA   |
|----------------------------|--|--|--|
| UN number                  | UN1210   | UN1210   | UN1210   |
| UN proper shipping name    | PRINTING INK RQ (Xylene, p-Xylene)   | PRINTING INK. Marine pollutant (m-Xylene, p-Xylene)  | PRINTING INK   |
| Transport hazard class(es) | 3<br> | 3<br>  | 3<br> |
| Packing group              | III  | III  | III  |
| Environmental hazards      | No.  | Yes.   | No.  |
| Additional information     | - Limited Quantity Exemption   | - Limited Quantity Exemption   | - Limited Quantity Exemption   |

AERG : 129

**DOT-RQ Details** : Xylene 100 lbs / 45.4 kg [13.946 gal / 52.791 L]  
p-Xylene 100 lbs / 45.4 kg [13.946 gal / 52.791 L]

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: p-Xylene  
TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
United States inventory (TSCA 8b): All components are listed or exempted.  
Clean Water Act (CWA) 307: Ethylbenzene; Toluene  
Clean Water Act (CWA) 311: Xylene; p-Xylene; m-Xylene; Ethylbenzene; o-Xylene; Toluene

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed



## Section 15. Regulatory information

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

| Name             | %       | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|------------------|---------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Xylene           | 30 - 60 | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| m-Xylene         | 30 - 60 | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| Titanium dioxide | 10 - 30 | No.         | No.                        | No.      | No.                             | Yes.                            |
| p-Xylene         | 10 - 30 | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| Ethylbenzene     | 5 - 10  | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| o-Xylene         | 5 - 10  | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| Carbon black     | 5 - 10  | No.         | No.                        | No.      | No.                             | Yes.                            |
| Toluene          | 0.1 - 1 | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |

### SARA 313

|  | Product name   | CAS number | %       |
|--|--|------------|---------|
| <b>Form R - Reporting requirements</b> | Xylene   | 1330-20-7  | 30 - 60 |
|  | m-Xylene   | 108-38-3   | 30 - 60 |
|  | p-Xylene   | 106-42-3   | 10 - 30 |
|  | Ethylbenzene   | 100-41-4   | 5 - 10  |
|  | o-Xylene   | 95-47-6    | 5 - 10  |
|  | Manganese, 4-[(4-Chloro-5-Methyl-2-Sulfophenyl)Azo]-3-Hydroxy-2-Naphthalenecarboxylic Acid Complex | 12238-31-2 | 1 - 5   |
| <b>Supplier notification</b>           | Xylene   | 1330-20-7  | 30 - 60 |
|  | m-Xylene   | 108-38-3   | 30 - 60 |
|  | p-Xylene   | 106-42-3   | 10 - 30 |
|  | Ethylbenzene   | 100-41-4   | 5 - 10  |
|  | o-Xylene   | 95-47-6    | 5 - 10  |
|  | Manganese, 4-[(4-Chloro-5-Methyl-2-Sulfophenyl)Azo]-3-Hydroxy-2-Naphthalenecarboxylic Acid Complex | 12238-31-2 | 1 - 5   |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: Xylene; Titanium dioxide; p-Xylene; m-Xylene; Ethylbenzene; o-Xylene; Carbon black; Silicon dioxide
- New York** : The following components are listed: Xylene; p-Xylene; m-Xylene; Ethylbenzene; o-Xylene
- New Jersey** : The following components are listed: Xylene; Titanium dioxide; p-Xylene; m-Xylene; Ethylbenzene; o-Xylene; Carbon black
- Pennsylvania** : The following components are listed: Xylene; Titanium dioxide; p-Xylene; m-Xylene; Ethylbenzene; o-Xylene; Carbon black; Manganese, 4-[(4-Chloro-5-Methyl-2-Sulfophenyl)Azo]-3-Hydroxy-2-Naphthalenecarboxylic Acid Complex; Silicon dioxide

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

## Section 15. Regulatory information

| Ingredient name  | Cancer | Reproductive | No significant risk level                       | Maximum acceptable dosage level                      |
|------------------|--------|--------------|---|--|
| Titanium dioxide | Yes.   | No.          | No.   | No.  |
| Ethylbenzene     | Yes.   | No.          | 41 µg/day (ingestion)<br>54 µg/day (inhalation) | No.  |
| Carbon black     | Yes.   | No.          | No.   | No.  |
| Toluene          | No.    | Yes.         | No.   | 7000 µg/day (ingestion)<br>13000 µg/day (inhalation) |

## Section 16. Other information

### History

**Date of issue mm/dd/yyyy** : 06/15/2015

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**Prepared by** : KMK Regulatory Services Inc.

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 UN = United Nations

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

