

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Material name                   Ideapaint White PRO That, Part A  
Version #                        03  
Issue date                       01-17-2013  
Revision date                    01-27-2013  
Supersedes date                01-17-2013  
CAS #                            Mixture  
Product use                      Dry erase coating.  
Manufacturer information  
Manufacturer/Supplier         IdeaPaint  
                                      40 Broad Street, 1st Floor, Boston, MA 02109  
Telephone number               617.714.1050  
Emergency                       +1.866.519.4752 (US, Canada, Mexico)  
                                      +1-760-476-3962 (US, Canada, Mexico)  
                                      Access Code: 333641

## 2. Hazards Identification

Physical state                 Liquid.  
Appearance                    Off-white liquid.  
Emergency overview         DANGER  
  
Flammable liquid and vapor. Suspect cancer hazard - may cause cancer. Will be easily ignited by heat, spark or flames. Causes skin, eye and respiratory tract burns. May cause central nervous system depression.  
  
OSHA regulatory status       This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  
Potential health effects  
  Routes of exposure         Eye contact. Skin contact. Inhalation. Ingestion.  
  Eyes                         Causes eye burns.  
  Skin                         Causes skin burns.  
  Inhalation                 Vapors may cause drowsiness and dizziness. Causes respiratory tract burns.  
  Ingestion                 May cause burns in mucous membranes, throat, esophagus and stomach.  
Target organs                 Eyes. Skin. Central nervous system.  
Chronic effects               Cancer hazard. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.  
Signs and symptoms         Skin and eye burns. Unconsciousness. Narcosis. Behavioral changes. Decrease in motor functions. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Potential environmental effects   Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. Composition / Information on Ingredients

| Components          | CAS #        | Percent |
|---------------------|--------------|---------|
| Titanium dioxide    | 13463-67-7   | 30-50   |
| Acrylic copolymer   | trade secret | 20-50   |
| n-Butyl acetate     | 123-86-4     | 10-30   |
| 5-Methylhexan-2-one | 110-12-3     | <10     |
| Aluminium hydroxide | 21645-51-2   | <10     |
| Propylene Carbonate | 108-32-7     | <10     |
| Propionic acid      | 79-09-4      | <10     |
| Silicon dioxide     | 7631-86-9    | <10     |

| Components           | CAS #     | Percent |
|----------------------|-----------|---------|
| Xylene               | 1330-20-7 | 0-10    |
| Ethylbenzene         | 100-41-4  | 0-6     |
| Stoddard solvent     | 8052-41-3 | 0-5     |
| 2-Phenoxyethanol     | 122-99-6  | 0-1     |
| C.I. Basic Violet 1  | 548-62-9  | 0-1     |
| Dibutyltin dilaurate | 77-58-7   | 0-1     |

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First Aid Measures

##### First aid procedures

|              |  |
|--------------|--|
| Eye contact  | Flush eyes thoroughly with water for at least 15 minutes. Remove any contact lenses. Get medical attention if any discomfort continues.  |
| Skin contact | Flush skin thoroughly with water. Get medical attention if any discomfort continues.   |
| Inhalation   | Move into fresh air and keep at rest. Get medical attention if any discomfort continues.   |
| Ingestion    | Rinse mouth thoroughly. Drink a few glasses of water or milk. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort continues. |

Notes to physician

Provide general supportive measures and treat symptomatically.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire Fighting Measures

##### Flammable properties

The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

##### Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire.           |

##### Protection of firefighters

Specific hazards arising from the chemical Fire or high temperatures create: Carbon oxides. Oxides of Silica.

Protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

##### Fire fighting equipment/instructions

Cool containers exposed to heat with water spray and remove container, if no risk is involved. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

##### Specific methods

In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers.

##### Hazardous combustion products

Carbon monoxide and carbon dioxide. Silicon oxides.

#### 6. Accidental Release Measures

##### Personal precautions

Avoid contact with skin and eyes. Avoid breathing mist or vapor. Do not taste or swallow. Wear suitable protective clothing. For personal protection, see section 8 of the MSDS.

##### Environmental precautions

Do not discharge into drains, water courses or onto the ground.

##### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Dike the spilled material, where this is possible. Collect and dispose of spillage as indicated in Section 13 of the MSDS.

##### Methods for cleaning up

Absorb spillage with non-combustible, absorbent material.

## 7. Handling and Storage

### Handling

Local exhaust is recommended. Avoid inhalation of vapors and spray mist and contact with skin and eyes. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Do not smoke, use open fire or other sources of ignition. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use non-sparking hand tools and explosion-proof electrical equipment. Observe good industrial hygiene practices.

### Storage

Follow rules for flammable liquids. Store in closed original container in a dry place. Keep away from heat, sparks and open flame. Protect against direct sunlight. Store away from incompatible materials.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

| Components                           | Type | Value     | Form                 |
|--------------------------------------|------|-----------|----------------------|
| 5-Methylhexan-2-one (CAS 110-12-3)   | TWA  | 50 ppm    |                      |
| Aluminium hydroxide (CAS 21645-51-2) | TWA  | 1 mg/m3   | Respirable fraction. |
| Dibutyltin dilaurate (CAS 77-58-7)   | STEL | 0.2 mg/m3 |                      |
|                                      | TWA  | 0.1 mg/m3 |                      |
| Ethylbenzene (CAS 100-41-4)          | TWA  | 20 ppm    |                      |
| n-Butyl acetate (CAS 123-86-4)       | STEL | 200 ppm   |                      |
|                                      | TWA  | 150 ppm   |                      |
| Propionic acid (CAS 79-09-4)         | TWA  | 10 ppm    |                      |
| Stoddard solvent (CAS 8052-41-3)     | TWA  | 100 ppm   |                      |
| Titanium dioxide (CAS 13463-67-7)    | TWA  | 10 mg/m3  |                      |
| Xylene (CAS 1330-20-7)               | STEL | 150 ppm   |                      |
|                                      | TWA  | 100 ppm   |                      |

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                         | Type | Value      | Form        |
|------------------------------------|------|------------|-------------|
| 5-Methylhexan-2-one (CAS 110-12-3) | PEL  | 475 mg/m3  |             |
|                                    |      | 100 ppm    |             |
| Dibutyltin dilaurate (CAS 77-58-7) | PEL  | 0.1 mg/m3  |             |
| Ethylbenzene (CAS 100-41-4)        | PEL  | 435 mg/m3  |             |
|                                    |      | 100 ppm    |             |
| n-Butyl acetate (CAS 123-86-4)     | PEL  | 710 mg/m3  |             |
|                                    |      | 150 ppm    |             |
| Stoddard solvent (CAS 8052-41-3)   | PEL  | 2900 mg/m3 |             |
|                                    |      | 500 ppm    |             |
| Titanium dioxide (CAS 13463-67-7)  | PEL  | 15 mg/m3   | Total dust. |
| Xylene (CAS 1330-20-7)             | PEL  | 435 mg/m3  |             |
|                                    |      | 100 ppm    |             |

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components                      | Type | Value     |
|---------------------------------|------|-----------|
| Silicon dioxide (CAS 7631-86-9) | TWA  | 0.8 mg/m3 |
|                                 |      | 20 mppcf  |

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components                         | Type | Value                           |
|------------------------------------|------|---------------------------------|
| 5-Methylhexan-2-one (CAS 110-12-3) | TWA  | 234 mg/m3                       |
|                                    |      | 50 ppm                          |
| Dibutyltin dilaurate (CAS 77-58-7) | STEL | 0.2 mg/m3                       |
|                                    | TWA  | 0.1 mg/m3                       |
| Ethylbenzene (CAS 100-41-4)        | STEL | 543 mg/m3                       |
|                                    | TWA  | 125 ppm<br>434 mg/m3            |
| n-Butyl acetate (CAS 123-86-4)     | STEL | 100 ppm<br>950 mg/m3            |
|                                    | TWA  | 200 ppm<br>713 mg/m3            |
| Propionic acid (CAS 79-09-4)       | TWA  | 150 ppm<br>30 mg/m3             |
|                                    |      | 10 ppm                          |
| Stoddard solvent (CAS 8052-41-3)   | TWA  | 572 mg/m3                       |
|                                    |      | 100 ppm                         |
| Titanium dioxide (CAS 13463-67-7)  | TWA  | 10 mg/m3                        |
|                                    |      | 100 ppm                         |
| Xylene (CAS 1330-20-7)             | STEL | 651 mg/m3                       |
|                                    | TWA  | 150 ppm<br>434 mg/m3<br>100 ppm |

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components                           | Type | Value     | Form                 |
|--------------------------------------|------|-----------|----------------------|
| 5-Methylhexan-2-one (CAS 110-12-3)   | TWA  | 50 ppm    |                      |
| Aluminium hydroxide (CAS 21645-51-2) | TWA  | 1 mg/m3   | Respirable.          |
| Dibutyltin dilaurate (CAS 77-58-7)   | STEL | 0.2 mg/m3 |                      |
|                                      | TWA  | 0.1 mg/m3 |                      |
| Ethylbenzene (CAS 100-41-4)          | TWA  | 20 ppm    |                      |
|                                      |      | 20 ppm    |                      |
| n-Butyl acetate (CAS 123-86-4)       | TWA  | 20 ppm    |                      |
| Propionic acid (CAS 79-09-4)         | TWA  | 10 ppm    |                      |
| Silicon dioxide (CAS 7631-86-9)      | TWA  | 4 mg/m3   | Total                |
|                                      |      | 1.5 mg/m3 | Respirable.          |
| Stoddard solvent (CAS 8052-41-3)     | STEL | 580 mg/m3 |                      |
|                                      | TWA  | 290 mg/m3 |                      |
| Titanium dioxide (CAS 13463-67-7)    | TWA  | 3 mg/m3   | Respirable fraction. |
|                                      |      | 10 mg/m3  | Total dust.          |
| Xylene (CAS 1330-20-7)               | STEL | 150 ppm   |                      |
|                                      | TWA  | 100 ppm   |                      |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                         | Type | Value  | Form |
|------------------------------------|------|--------|------|
| 5-Methylhexan-2-one (CAS 110-12-3) | TWA  | 50 ppm |      |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                           | Type | Value     | Form                 |
|--------------------------------------|------|-----------|----------------------|
| Aluminium hydroxide (CAS 21645-51-2) | TWA  | 1 mg/m3   | Respirable fraction. |
| Dibutyltin dilaurate (CAS 77-58-7)   | TWA  | 0.1 mg/m3 |                      |
| Ethylbenzene (CAS 100-41-4)          | STEL | 125 ppm   |                      |
|                                      | TWA  | 100 ppm   |                      |
| n-Butyl acetate (CAS 123-86-4)       | STEL | 200 ppm   |                      |
|                                      | TWA  | 150 ppm   |                      |
| Propionic acid (CAS 79-09-4)         | TWA  | 10 ppm    |                      |
| Silicon dioxide (CAS 7631-86-9)      | TWA  | 10 mg/m3  |                      |
| Stoddard solvent (CAS 8052-41-3)     | TWA  | 100 ppm   |                      |
| Titanium dioxide (CAS 13463-67-7)    | TWA  | 10 mg/m3  |                      |
| Xylene (CAS 1330-20-7)               | STEL | 150 ppm   |                      |
|                                      | TWA  | 100 ppm   |                      |

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

| Components                         | Type | Value     | Form             |
|------------------------------------|------|-----------|------------------|
| 5-Methylhexan-2-one (CAS 110-12-3) | TWA  | 234 mg/m3 |                  |
|                                    |      | 50 ppm    |                  |
| Dibutyltin dilaurate (CAS 77-58-7) | STEL | 0.2 mg/m3 |                  |
|                                    | TWA  | 0.1 mg/m3 |                  |
| Ethylbenzene (CAS 100-41-4)        | STEL | 543 mg/m3 |                  |
|                                    |      | 125 ppm   |                  |
|                                    | TWA  | 434 mg/m3 |                  |
|                                    |      | 100 ppm   |                  |
| n-Butyl acetate (CAS 123-86-4)     | STEL | 950 mg/m3 |                  |
|                                    |      | 200 ppm   |                  |
|                                    | TWA  | 713 mg/m3 |                  |
|                                    |      | 150 ppm   |                  |
| Propionic acid (CAS 79-09-4)       | TWA  | 30 mg/m3  |                  |
|                                    |      | 10 ppm    |                  |
| Silicon dioxide (CAS 7631-86-9)    | TWA  | 6 mg/m3   | Respirable dust. |
| Stoddard solvent (CAS 8052-41-3)   | TWA  | 525 mg/m3 |                  |
|                                    |      | 100 ppm   |                  |
| Titanium dioxide (CAS 13463-67-7)  | TWA  | 10 mg/m3  | Total dust.      |
| Xylene (CAS 1330-20-7)             | STEL | 651 mg/m3 |                  |
|                                    |      | 150 ppm   |                  |
|                                    | TWA  | 434 mg/m3 |                  |
|                                    |      | 100 ppm   |                  |

Mexico. Occupational Exposure Limit Values

| Components                         | Type | Value     |
|------------------------------------|------|-----------|
| 5-Methylhexan-2-one (CAS 110-12-3) | TWA  | 475 mg/m3 |
|                                    |      | 100 ppm   |
| Dibutyltin dilaurate (CAS 77-58-7) | STEL | 0.2 mg/m3 |

Mexico. Occupational Exposure Limit Values

| Components                        | Type | Value                             |
|-----------------------------------|------|-----------------------------------|
| Ethylbenzene (CAS 100-41-4)       | TWA  | 0.1 mg/m <sup>3</sup>             |
|                                   | STEL | 545 mg/m <sup>3</sup>             |
| n-Butyl acetate (CAS 123-86-4)    | TWA  | 125 ppm<br>435 mg/m <sup>3</sup>  |
|                                   | STEL | 100 ppm<br>950 mg/m <sup>3</sup>  |
| Stoddard solvent (CAS 8052-41-3)  | TWA  | 200 ppm<br>710 mg/m <sup>3</sup>  |
|                                   | STEL | 150 ppm<br>1050 mg/m <sup>3</sup> |
| Titanium dioxide (CAS 13463-67-7) | TWA  | 200 ppm<br>523 mg/m <sup>3</sup>  |
|                                   | STEL | 100 ppm<br>20 mg/m <sup>3</sup>   |
| Xylene (CAS 1330-20-7)            | TWA  | 10 mg/m <sup>3</sup>              |
|                                   | STEL | 655 mg/m <sup>3</sup><br>150 ppm  |
|                                   | TWA  | 435 mg/m <sup>3</sup><br>100 ppm  |

**Engineering controls** Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

**Personal protective equipment**

Eye / face protection Wear approved safety glasses or goggles.

Skin protection Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical & Chemical Properties**

|  |                            |
|--|----------------------------|
| Appearance                                     | Off-white liquid.          |
| Physical state                                 | Liquid.                    |
| Form   | Liquid.                    |
| Color  | White.                     |
| Odor   | Strong sweet.              |
| Odor threshold                                 | Not available.             |
| pH   | 6 - 9                      |
| Vapor pressure                                 | Not available.             |
| Vapor density                                  | Heavier than air.          |
| Boiling point                                  | Not available.             |
| Melting point/Freezing point                   | Not available.             |
| Solubility (water)                             | Insoluble in water.        |
| Specific gravity                               | 1.2 - 1.32                 |
| Flash point                                    | 80 °F (26.7 °C) Closed Cup |
| Flammability limits in air, upper, % by volume | >9.44                      |

|  |  |
|--|--|
| Flammability limit - upper (%) temperature     | 212 °F (100 °C)                          |
| Flammability limits in air, lower, % by volume | 1.7                                      |
| Flammability limit - lower (%) temperature     | 212 °F (100 °C)                          |
| Auto-ignition temperature                      | Not available.                           |
| VOC  | 320 g/l EPA Method 24 Mixture of A and B |
| Evaporation rate                               | Slower than ether.                       |

## 10. Chemical Stability & Reactivity Information

|                                    |   |
|------------------------------------|---|
| Chemical stability                 | Stable under normal temperature conditions.                 |
| Conditions to avoid                | Heat, sparks, flames. Contact with incompatible materials.  |
| Incompatible materials             | Strong oxidizing agents.                                    |
| Hazardous decomposition products   | No hazardous decomposition products are known.              |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |

## 11. Toxicological Information

### Toxicological data

| Components                           | Species | Test Results                 |
|--------------------------------------|---------|------------------------------|
| 2-Phenoxyethanol (CAS 122-99-6)      |         |                              |
| Acute                                |         |                              |
| Oral                                 |         |                              |
| LD50                                 | Rat     | 1260 mg/kg                   |
| 5-Methylhexan-2-one (CAS 110-12-3)   |         |                              |
| Acute                                |         |                              |
| Dermal                               |         |                              |
| LD50                                 | Rabbit  | 8900 mg/kg                   |
| Oral                                 |         |                              |
| LD50                                 | Rat     | 3200 mg/kg                   |
| Aluminium hydroxide (CAS 21645-51-2) |         |                              |
| Acute                                |         |                              |
| Inhalation                           |         |                              |
| LC50                                 | Rat     | > 2.3 mg/l, 4 Hours          |
| Oral                                 |         |                              |
| LD50                                 | Rat     | > 5000 mg/kg<br>> 2000 mg/kg |
| Ethylbenzene (CAS 100-41-4)          |         |                              |
| Acute                                |         |                              |
| Dermal                               |         |                              |
| LD50                                 | Rabbit  | > 5000 mg/kg                 |
| Oral                                 |         |                              |
| LD50                                 | Rat     | 5.46 g/kg                    |
| n-Butyl acetate (CAS 123-86-4)       |         |                              |
| Acute                                |         |                              |
| Inhalation                           |         |                              |
| LC50                                 | Rat     | 2000 ppm, 4 Hours            |
| Oral                                 |         |                              |
| LD50                                 | Rat     | 10768 mg/kg                  |

| Components   | Species   | Test Results        |
|--|---|---------------------|
| Propionic acid (CAS 79-09-4)                           |   |                     |
| Acute  |   |                     |
| Dermal   |   |                     |
| LD50   | Rabbit  | 500 mg/kg           |
| Oral   |   |                     |
| LD50   | Rat   | > 400 mg/kg         |
| Silicon dioxide (CAS 7631-86-9)                        |   |                     |
| Acute  |   |                     |
| Oral   |   |                     |
| LD50   | Rat   | > 22500 mg/kg       |
| Stoddard solvent (CAS 8052-41-3)                       |   |                     |
| Acute  |   |                     |
| Dermal   |   |                     |
| LD50   | Rabbit  | > 2000 mg/kg        |
| Inhalation   |   |                     |
| LC50   | Rat   | > 5.2 mg/l, 4 hours |
| Oral   |   |                     |
| LD50   | Rat   | > 5000 mg/kg        |
| Xylene (CAS 1330-20-7)                                 |   |                     |
| Acute  |   |                     |
| Oral   |   |                     |
| LD50   | Rat   | 4300 mg/kg          |
| Sensitization  | No sensitizing effects known.   |                     |
| Acute effects  | Vapors may cause drowsiness and dizziness.  |                     |
| Local effects  | Corrosive to skin and eyes.   |                     |
| US. ACGIH Threshold Limit Values                       |   |                     |
| Dibutyltin dilaurate (CAS 77-58-7)                     | Can be absorbed through the skin.   |                     |
| Chronic effects  | Prolonged or repeated contact may dry skin and cause dermatitis.  |                     |
| Carcinogenicity  | Suspected of causing cancer.  |                     |
| ACGIH Carcinogens                                      |   |                     |
| Aluminium hydroxide (CAS 21645-51-2)                   | A4 Not classifiable as a human carcinogen.  |                     |
| Dibutyltin dilaurate (CAS 77-58-7)                     | A4 Not classifiable as a human carcinogen.  |                     |
| Ethylbenzene (CAS 100-41-4)                            | A3 Confirmed animal carcinogen with unknown relevance to humans.  |                     |
| Titanium dioxide (CAS 13463-67-7)                      | A4 Not classifiable as a human carcinogen.  |                     |
| Xylene (CAS 1330-20-7)                                 | A4 Not classifiable as a human carcinogen.  |                     |
| IARC Monographs. Overall Evaluation of Carcinogenicity |   |                     |
| Ethylbenzene (CAS 100-41-4)                            | 2B Possibly carcinogenic to humans.   |                     |
| Silicon dioxide (CAS 7631-86-9)                        | 3 Not classifiable as to carcinogenicity to humans.   |                     |
| Stoddard solvent (CAS 8052-41-3)                       | 3 Not classifiable as to carcinogenicity to humans.   |                     |
| Titanium dioxide (CAS 13463-67-7)                      | 2B Possibly carcinogenic to humans.   |                     |
| Xylene (CAS 1330-20-7)                                 | 3 Not classifiable as to carcinogenicity to humans.   |                     |
| Mutagenicity   | Not classified.   |                     |
| Reproductive effects                                   | Not classified.   |                     |
| Symptoms and target organs                             | Prolonged or repeated contact may dry skin and cause irritation.  |                     |
| Further information                                    | May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue) and/or damage. |                     |



## 12. Ecological Information

### Ecotoxicological data

| Components                         |                | Species   | Test Results             |
|------------------------------------|----------------|---|--------------------------|
| 2-Phenoxyethanol (CAS 122-99-6)    |                |   |                          |
| Aquatic                            |                |   |                          |
| Fish                               | LC50           | Fathead minnow ( <i>Pimephales promelas</i> )                   | 337 - 352 mg/l, 96 hours |
| 5-Methylhexan-2-one (CAS 110-12-3) |                |   |                          |
| Aquatic                            |                |   |                          |
| Fish                               | LC50           | Fathead minnow ( <i>Pimephales promelas</i> )                   | 159 mg/l, 96 hours       |
| Ethylbenzene (CAS 100-41-4)        |                |   |                          |
| Aquatic                            |                |   |                          |
| Crustacea                          | EC50           | Water flea ( <i>Daphnia magna</i> )                             | 1 - 4 mg/l, 48 hours     |
| Fish                               | LC50           | Rainbow trout,donaldson trout<br>( <i>Oncorhynchus mykiss</i> ) | 4 mg/l, 96 hours         |
| n-Butyl acetate (CAS 123-86-4)     |                |   |                          |
| Aquatic                            |                |   |                          |
| Fish                               | LC50           | Fathead minnow ( <i>Pimephales promelas</i> )                   | 17 - 19 mg/l, 96 hours   |
| Titanium dioxide (CAS 13463-67-7)  |                |   |                          |
| Aquatic                            |                |   |                          |
| Crustacea                          | EC50           | Water flea ( <i>Daphnia magna</i> )                             | > 1000 mg/l, 48 hours    |
| Fish                               | LC50           | Mummichog ( <i>Fundulus heteroclitus</i> )                      | > 1000 mg/l, 96 hours    |
| Xylene (CAS 1330-20-7)             |                |   |                          |
| Aquatic                            |                |   |                          |
| Fish                               | LC50           | Rainbow trout,donaldson trout<br>( <i>Oncorhynchus mykiss</i> ) | 8 mg/l, 96 Hours         |
| Persistence and degradability      | Not available. |   |                          |
| Bioaccumulation /<br>Accumulation  | Not available. |   |                          |
| Partition coefficient              |                |   |                          |
| Propionic acid (CAS 79-09-4)       |                | 0.33  |                          |
| 2-Phenoxyethanol (CAS 122-99-6)    |                | 1.16  |                          |
| n-Butyl acetate (CAS 123-86-4)     |                | 1.78  |                          |
| 5-Methylhexan-2-one (CAS 110-12-3) |                | 1.88  |                          |
| Dibutyltin dilaurate (CAS 77-58-7) |                | 3.12  |                          |
| Ethylbenzene (CAS 100-41-4)        |                | 3.15  |                          |
| Stoddard solvent (CAS 8052-41-3)   |                | 3.16 - 7.15   |                          |
| Xylene (CAS 1330-20-7)             |                | 3.2   |                          |

## 13. Disposal Considerations

|                                       |  |
|---------------------------------------|--|
| Waste codes                           | D001: Waste Flammable material with a flash point <140 °F  |
| Disposal instructions                 | Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Waste from residues / unused products | Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.   |
| Contaminated packaging                | Empty containers should be taken to an approved waste handling site for recycling or disposal.   |

## 14. Transport Information

### DOT

#### Basic shipping requirements:

|                      |  |
|----------------------|--|
| UN number            | UN1993   |
| Proper shipping name | Flammable liquid, n.o.s. (n-butyl acetate, xylene) |
| Hazard class         | 3  |
| Packing group        | II   |

Additional information:

Special provisions IB2, T7, TP1, TP8, TP28  
Packaging exceptions 150  
Packaging non bulk 202  
Packaging bulk 242

IATA

UN number UN1993  
UN proper shipping name Flammable liquid, n.o.s. (n-butyl acetate, xylene)  
Transport hazard class(es) 3  
Packing group II  
Labels required 3  
Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

IMDG

UN number UN1993  
UN proper shipping name Flammable liquid, n.o.s. (n-butyl acetate, xylene)  
Transport hazard class(es) 3  
Packing group II  
Labels required 3  
EmS F-E, S-E  
Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

TDG

UN number UN1993  
Proper shipping name Flammable liquid, n.o.s. (n-butyl acetate, xylene)  
Hazard class 3  
Packing group II  
Special provisions IB2, T7, TP1, TP8, TP28  
Labels required 3  
Packaging exceptions 150  
Packaging non bulk 202  
Packaging bulk 242

## 15. Regulatory Information

### US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

2-Phenoxyethanol (CAS 122-99-6)

Ethylbenzene (CAS 100-41-4)

Xylene (CAS 1330-20-7)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

2-Phenoxyethanol (CAS 122-99-6) 1.0 % N230

Ethylbenzene (CAS 100-41-4) 0.1 %

Xylene (CAS 1330-20-7) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

2-Phenoxyethanol (CAS 122-99-6) N230 Listed.

Ethylbenzene (CAS 100-41-4) Listed.

Xylene (CAS 1330-20-7) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

n-Butyl acetate: 5000

Propionic acid: 5000

Xylene: 100

Ethylbenzene: 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

|  |   |
|--|---|
| Hazard categories  | Immediate Hazard - Yes<br>Delayed Hazard - Yes<br>Fire Hazard - Yes<br>Pressure Hazard - No<br>Reactivity Hazard - No |
| Section 302 extremely hazardous substance (40 CFR 355, Appendix A) | No  |
| Section 311/312 (40 CFR 370)                                       | Yes   |
| Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)          | Not controlled  |
| WHMIS status   | Controlled  |
| WHMIS classification   | B2 - Flammable Liquids<br>D1B - Immediate/Serious-TOXIC<br>D2B - Other Toxic Effects-TOXIC<br>E - Corrosive           |

WHMIS labeling



Inventory status

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations **WARNING: This product contains chemicals known to the State of California to cause cancer.**

US - California Hazardous Substances (Director's): Listed substance

|                                    |         |
|------------------------------------|---------|
| 5-Methylhexan-2-one (CAS 110-12-3) | Listed. |
| Dibutyltin dilaurate (CAS 77-58-7) | Listed. |
| Ethylbenzene (CAS 100-41-4)        | Listed. |
| n-Butyl acetate (CAS 123-86-4)     | Listed. |
| Propionic acid (CAS 79-09-4)       | Listed. |
| Silicon dioxide (CAS 7631-86-9)    | Listed. |
| Stoddard solvent (CAS 8052-41-3)   | Listed. |
| Xylene (CAS 1330-20-7)             | Listed. |

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

|                                   |         |
|-----------------------------------|---------|
| Ethylbenzene (CAS 100-41-4)       | Listed. |
| Titanium dioxide (CAS 13463-67-7) | Listed. |

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

|                                   |   |
|-----------------------------------|---|
| Ethylbenzene (CAS 100-41-4)       | Listed: June 11, 2004 Carcinogenic.     |
| Titanium dioxide (CAS 13463-67-7) | Listed: September 2, 2011 Carcinogenic. |

US - New Jersey RTK - Substances: Listed substance

|                                 |         |
|---------------------------------|---------|
| 2-Phenoxyethanol (CAS 122-99-6) | Listed. |
|---------------------------------|---------|

|   |         |
|---|---------|
| 5-Methylhexan-2-one (CAS 110-12-3)                    | Listed. |
| Ethylbenzene (CAS 100-41-4)                           | Listed. |
| n-Butyl acetate (CAS 123-86-4)                        | Listed. |
| Propionic acid (CAS 79-09-4)                          | Listed. |
| Silicon dioxide (CAS 7631-86-9)                       | Listed. |
| Stoddard solvent (CAS 8052-41-3)                      | Listed. |
| Titanium dioxide (CAS 13463-67-7)                     | Listed. |
| Xylene (CAS 1330-20-7)                                | Listed. |
| US. Massachusetts RTK - Substance List                |         |
| 5-Methylhexan-2-one (CAS 110-12-3)                    | Listed. |
| Ethylbenzene (CAS 100-41-4)                           | Listed. |
| n-Butyl acetate (CAS 123-86-4)                        | Listed. |
| Propionic acid (CAS 79-09-4)                          | Listed. |
| Silicon dioxide (CAS 7631-86-9)                       | Listed. |
| Stoddard solvent (CAS 8052-41-3)                      | Listed. |
| Titanium dioxide (CAS 13463-67-7)                     | Listed. |
| Xylene (CAS 1330-20-7)                                | Listed. |
| US. New Jersey Worker and Community Right-to-Know Act |         |
| 2-Phenoxyethanol (CAS 122-99-6)                       | 500 LBS |
| Ethylbenzene (CAS 100-41-4)                           | 500 LBS |
| Xylene (CAS 1330-20-7)                                | 500 LBS |
| US. Pennsylvania RTK - Hazardous Substances           |         |
| 2-Phenoxyethanol (CAS 122-99-6)                       | Listed. |
| 5-Methylhexan-2-one (CAS 110-12-3)                    | Listed. |
| Ethylbenzene (CAS 100-41-4)                           | Listed. |
| n-Butyl acetate (CAS 123-86-4)                        | Listed. |
| Propionic acid (CAS 79-09-4)                          | Listed. |
| Silicon dioxide (CAS 7631-86-9)                       | Listed. |
| Stoddard solvent (CAS 8052-41-3)                      | Listed. |
| Titanium dioxide (CAS 13463-67-7)                     | Listed. |
| Xylene (CAS 1330-20-7)                                | Listed. |

## 16. Other Information

|                 |  |
|-----------------|--|
| Recommended use | Coating.   |
| HMIS® ratings   | Health: 2*<br>Flammability: 3<br>Physical hazard: 0  |
| NFPA ratings    | Health: 2<br>Flammability: 3<br>Instability: 0   |
| Disclaimer      | The information in the sheet was written based on the best knowledge and experience currently available. |

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Material name Ideapaint PRO THIS, Part B  
Version # 01  
Issue date 01-27-2013  
Revision date -  
Supersedes date -  
CAS # Mixture  
Product use Dry erase coating.  
Manufacturer information  
Manufacturer/Supplier IdeaPaint  
40 Broad Street, 1st Floor, Boston, MA 02109  
Telephone number 617.714.1050  
Emergency +1.866.519.4752 (US, Canada, Mexico)  
+1-760-476-3962 (US, Canada, Mexico)  
Access Code: 333641

## 2. Hazards Identification

Physical state Liquid.  
Appearance Clear, pale yellow liquid.  
Emergency overview DANGER

Flammable liquid and vapor. Suspect cancer hazard - may cause cancer. Will be easily ignited by heat, spark or flames. Causes skin and eye irritation. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness. May cause allergic respiratory and skin reactions.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

### Potential health effects

#### Routes of exposure

Inhalation. Ingestion. Skin contact. Eye contact.

#### Eyes

Causes eye irritation.

#### Skin

Causes skin irritation. May cause allergic skin reaction.

#### Inhalation

Causes irritation to respiratory system. Vapors may cause drowsiness and dizziness. May cause allergic respiratory reaction.

#### Ingestion

Ingestion may cause irritation and malaise.

### Target organs

Eyes. Respiratory system. Skin. Central nervous system.

### Chronic effects

Cancer hazard. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.

### Signs and symptoms

Irritating to eyes, respiratory system and skin. May cause allergic respiratory and skin reactions. Unconsciousness. Narcosis. Behavioral changes. Decrease in motor functions. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects The environmental hazard of the product is considered to be limited.

## 3. Composition / Information on Ingredients

| Components                         | CAS #      | Percent |
|------------------------------------|------------|---------|
| 1,6-Diisocyanatohexane homopolymer | 28182-81-2 | 60-100  |
| n-Butyl acetate                    | 123-86-4   | 10-20   |
| Xylene                             | 1330-20-7  | 7-13    |
| Ethylbenzene                       | 100-41-4   | <2      |
| Hexamethylene-1, 6-diisocyanate    | 822-06-0   | <0.6    |

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First Aid Measures

### First aid procedures

|              |   |
|--------------|---|
| Eye contact  | Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation develops and persists.  |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.  |
| Inhalation   | Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.   |
| Ingestion    | If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention if any discomfort continues. |

### Notes to physician

Treat symptomatically.

### General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

### Flammable properties

The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

### Extinguishing media

Suitable extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

### Protection of firefighters

Specific hazards arising from the chemical: Fire or high temperatures create: Nitrogen oxides. Hydrogen cyanide. Carbon oxides. Isocyanate vapors. Solvent vapors may form explosive mixtures with air.

Protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

### Fire fighting equipment/instructions

Cool containers exposed to heat with water spray and remove container, if no risk is involved. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

### Specific methods

In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers.

## 6. Accidental Release Measures

### Personal precautions

Avoid contact with skin and eyes. Do not breathe vapor. Do not taste or swallow. Wear suitable protective clothing. For personal protection, see section 8 of the MSDS.

### Environmental precautions

Do not discharge into drains, water courses or onto the ground.

### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Dike the spilled material, where this is possible. Collect and dispose of spillage as indicated in Section 13 of the MSDS.

### Methods for cleaning up

Absorb spillage with non-combustible, absorbent material.

## 7. Handling and Storage

### Handling

Local exhaust is recommended. Avoid inhalation of vapors and spray mist and contact with skin and eyes. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Do not smoke, use open fire or other sources of ignition. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use non-sparking hand tools and explosion-proof electrical equipment. Observe good industrial hygiene practices.

### Storage

Follow rules for flammable liquids. Store in closed original container in a dry place. Keep away from heat, sparks and open flame. Protect against direct sunlight. Store away from incompatible materials.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

| Components                                     | Type | Value     |
|--|------|-----------|
| Ethylbenzene (CAS 100-41-4)                    | TWA  | 20 ppm    |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | TWA  | 0.005 ppm |
| n-Butyl acetate (CAS 123-86-4)                 | STEL | 200 ppm   |
| Xylene (CAS 1330-20-7)                         | TWA  | 150 ppm   |
|  | STEL | 150 ppm   |
|  | TWA  | 100 ppm   |

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                     | Type | Value                |
|--------------------------------|------|----------------------|
| Ethylbenzene (CAS 100-41-4)    | PEL  | 435 mg/m3            |
| n-Butyl acetate (CAS 123-86-4) | PEL  | 100 ppm              |
|                                |      | 710 mg/m3            |
| Xylene (CAS 1330-20-7)         | PEL  | 150 ppm              |
|                                |      | 435 mg/m3<br>100 ppm |

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components                                     | Type | Value                           |
|--|------|---------------------------------|
| Ethylbenzene (CAS 100-41-4)                    | STEL | 543 mg/m3                       |
|  | TWA  | 125 ppm<br>434 mg/m3<br>100 ppm |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | TWA  | 0.03 mg/m3                      |
|  |      | 0.005 ppm                       |
| n-Butyl acetate (CAS 123-86-4)                 | STEL | 950 mg/m3                       |
|  | TWA  | 200 ppm<br>713 mg/m3<br>150 ppm |
| Xylene (CAS 1330-20-7)                         | STEL | 651 mg/m3<br>150 ppm            |
|  | TWA  | 434 mg/m3<br>100 ppm            |

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components                                     | Type    | Value     |
|--|---------|-----------|
| Ethylbenzene (CAS 100-41-4)                    | TWA     | 20 ppm    |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | Ceiling | 0.01 ppm  |
|  | TWA     | 0.005 ppm |
| n-Butyl acetate (CAS 123-86-4)                 | TWA     | 20 ppm    |
|  | STEL    | 150 ppm   |
| Xylene (CAS 1330-20-7)                         | STEL    | 150 ppm   |
|  | TWA     | 100 ppm   |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                                     | Type    | Value     |
|--|---------|-----------|
| Ethylbenzene (CAS 100-41-4)                    | STEL    | 125 ppm   |
|  | TWA     | 100 ppm   |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | Ceiling | 0.02 ppm  |
|  | TWA     | 0.005 ppm |
| n-Butyl acetate (CAS 123-86-4)                 | STEL    | 200 ppm   |
|  | TWA     | 150 ppm   |
| Xylene (CAS 1330-20-7)                         | STEL    | 150 ppm   |
|  | TWA     | 100 ppm   |

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

| Components                     | Type | Value  |
|--------------------------------|------|--|
| Ethylbenzene (CAS 100-41-4)    | STEL | 543 mg/m3                                    |
|                                | TWA  | 125 ppm<br>434 mg/m3<br>100 ppm              |
|                                | TWA  | 0.034 mg/m3                                  |
| n-Butyl acetate (CAS 123-86-4) | STEL | 0.005 ppm<br>950 mg/m3                       |
|                                | TWA  | 200 ppm<br>713 mg/m3<br>150 ppm              |
|                                | STEL | 651 mg/m3<br>150 ppm<br>434 mg/m3<br>100 ppm |

Mexico. Occupational Exposure Limit Values

| Components                     | Type | Value  |
|--------------------------------|------|--|
| Ethylbenzene (CAS 100-41-4)    | STEL | 545 mg/m3                                    |
|                                | TWA  | 125 ppm<br>435 mg/m3<br>100 ppm              |
|                                | STEL | 950 mg/m3                                    |
| n-Butyl acetate (CAS 123-86-4) | TWA  | 200 ppm<br>710 mg/m3<br>150 ppm              |
|                                | STEL | 655 mg/m3<br>150 ppm<br>435 mg/m3<br>100 ppm |

- Engineering controls** Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.
- Personal protective equipment**
- Eye / face protection Wear approved safety glasses or goggles.
  - Skin protection Wear suitable protective clothing. Use of protective coveralls and long sleeves is recommended.
  - Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.



General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical & Chemical Properties

|  |  |
|--|--|
| Appearance                                     | Clear, pale yellow liquid.               |
| Physical state                                 | Liquid.                                  |
| Form   | Liquid.                                  |
| Color  | Clear, pale yellow.                      |
| Odor   | Strong sweet.                            |
| Odor threshold                                 | Not available.                           |
| pH   | 6 - 9                                    |
| Vapor pressure                                 | Not available.                           |
| Vapor density                                  | Heavier than air.                        |
| Boiling point                                  | Not available.                           |
| Melting point/Freezing point                   | Not available.                           |
| Solubility (water)                             | Insoluble in water.                      |
| Specific gravity                               | 1.2 - 1.32                               |
| Flash point                                    | 91 °F (32.8 °C) Closed Cup               |
| Flammability limits in air, upper, % by volume | >9.44                                    |
| Flammability limit - upper (%) temperature     | 212 °F (100 °C)                          |
| Flammability limits in air, lower, % by volume | 1.7                                      |
| Flammability limit - lower (%) temperature     | 212 °F (100 °C)                          |
| Auto-ignition temperature                      | Not available.                           |
| VOC  | 320 g/l EPA Method 24 Mixture of A and B |
| Evaporation rate                               | Slower than ether.                       |

## 10. Chemical Stability & Reactivity Information

|                                    |   |
|------------------------------------|---|
| Chemical stability                 | Stable under normal temperature conditions.                 |
| Conditions to avoid                | Heat, sparks, flames. Contact with incompatible materials.  |
| Incompatible materials             | Strong oxidizing agents.                                    |
| Hazardous decomposition products   | No hazardous decomposition products are known.              |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |

## 11. Toxicological Information

| Toxicological data                             | Species | Test Results |
|--|---------|--------------|
| Components                                     |         |              |
| Ethylbenzene (CAS 100-41-4)                    |         |              |
| Acute  |         |              |
| Dermal   |         |              |
| LD50   | Rabbit  | > 5000 mg/kg |
| Oral   |         |              |
| LD50   | Rat     | 5.46 g/kg    |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) |         |              |
| Acute  |         |              |
| Dermal   |         |              |
| LD50   | Rabbit  | 593 mg/kg    |

| Components   | Species   | Test Results   |
|--|---|--|
| Inhalation<br>LC50                                     | Rat   | 22 mg/l, 4 Hours   |
| Oral<br>LD50   | Rat   | 960 mg/kg  |
| n-Butyl acetate (CAS 123-86-4)                         |   |  |
| Acute<br>Inhalation<br>LC50                            | Rat   | 2000 ppm, 4 Hours  |
| Oral<br>LD50   | Rat   | 10768 mg/kg  |
| Xylene (CAS 1330-20-7)                                 |   |  |
| Acute<br>Oral<br>LD50                                  | Rat   | 4300 mg/kg   |
| Sensitization  | May cause sensitization by inhalation and skin contact.   |  |
| Local effects  | Causes skin, eye and respiratory tract irritation.  |  |
| Chronic effects  | Prolonged or repeated contact may dry skin and cause dermatitis.  |  |
| Carcinogenicity  | Suspected of causing cancer.  |  |
| ACGIH Carcinogens                                      |   |  |
| Ethylbenzene (CAS 100-41-4)                            |   | A3 Confirmed animal carcinogen with unknown relevance to humans. |
| Xylene (CAS 1330-20-7)                                 |   | A4 Not classifiable as a human carcinogen.                       |
| IARC Monographs. Overall Evaluation of Carcinogenicity |   |  |
| Ethylbenzene (CAS 100-41-4)                            |   | 2B Possibly carcinogenic to humans.                              |
| Xylene (CAS 1330-20-7)                                 |   | 3 Not classifiable as to carcinogenicity to humans.              |
| Mutagenicity   | Not classified.   |  |
| Reproductive effects                                   | Not classified.   |  |
| Symptoms and target organs                             | Prolonged or repeated contact may dry skin and cause irritation.  |  |
| Further information                                    | May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue) and/or damage. |  |

## 12. Ecological Information

| Ecotoxicological data          |  |   |                        |
|--------------------------------|--|---|------------------------|
| Components                     |  | Species   | Test Results           |
| Ethylbenzene (CAS 100-41-4)    |  |   |                        |
| Aquatic                        |  |   |                        |
| Crustacea                      | EC50   | Water flea (Daphnia magna)                          | 1 - 4 mg/l, 48 hours   |
| Fish                           | LC50   | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4 mg/l, 96 hours       |
| n-Butyl acetate (CAS 123-86-4) |  |   |                        |
| Aquatic                        |  |   |                        |
| Fish                           | LC50   | Fathead minnow (Pimephales promelas)                | 17 - 19 mg/l, 96 hours |
| Xylene (CAS 1330-20-7)         |  |   |                        |
| Aquatic                        |  |   |                        |
| Fish                           | LC50   | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 8 mg/l, 96 Hours       |
| Ecotoxicity                    | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |   |                        |
| Environmental effects          | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  |   |                        |
| Persistence and degradability  | Not available.   |   |                        |

Bioaccumulation / Accumulation Not available.

Partition coefficient  
n-Butyl acetate (CAS 123-86-4) 1.78  
Ethylbenzene (CAS 100-41-4) 3.15  
Xylene (CAS 1330-20-7) 3.2

### 13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 °F

Disposal instructions Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from residues / unused products Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.

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

### 14. Transport Information

#### DOT

Basic shipping requirements:

UN number UN1993  
Proper shipping name Flammable liquid, n.o.s. (n-butyl acetate, xylene)  
Hazard class 3  
Packing group II  
Special precautions Read safety instructions, MSDS and emergency procedures before handling.  
Additional information:  
Special provisions IB2, T7, TP1, TP8, TP28  
Packaging exceptions 150  
Packaging non bulk 202  
Packaging bulk 242

#### IATA

UN number UN1993  
UN proper shipping name Flammable liquid, n.o.s. (n-butyl acetate, xylene)  
Transport hazard class(es) 3  
Packing group II  
Labels required 3  
Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

#### IMDG

UN number UN1993  
UN proper shipping name Flammable liquid, n.o.s. (n-butyl acetate, xylene)  
Transport hazard class(es) 3  
Packing group II  
Labels required 3  
EmS F-E. S-E  
Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

#### TDG

UN number UN1993  
Proper shipping name Flammable liquid, n.o.s. (n-butyl acetate, xylene)  
Hazard class 3  
Packing group II  
Special provisions IB2, T7, TP1, TP8, TP28  
Labels required 3  
Packaging exceptions 150  
Packaging non bulk 202  
Packaging bulk 242

## 15. Regulatory Information

### US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylbenzene (CAS 100-41-4)

Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)

Xylene (CAS 1330-20-7)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Ethylbenzene (CAS 100-41-4) 0.1 %

Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) 1.0 %

Xylene (CAS 1330-20-7) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Ethylbenzene (CAS 100-41-4) Listed.

Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) Listed.

Xylene (CAS 1330-20-7) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

n-Butyl acetate: 5000

Xylene: 100

Ethylbenzene: 1000

Hexamethylene-1, 6-diisocyanate: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories  
 Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)  
 No

Section 311/312 (40 CFR 370)  
 Yes

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)  
 Not controlled

WHMIS status  
 Controlled

WHMIS classification  
 B2 - Flammable Liquids  
 D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada               | Domestic Substances List (DSL)   | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe               | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand          | New Zealand Inventory  | Yes                    |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |

|                             |   |                        |
|-----------------------------|---|------------------------|
| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

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

US - California Hazardous Substances (Director's): Listed substance

|  |         |
|--|---------|
| Ethylbenzene (CAS 100-41-4)                    | Listed. |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | Listed. |
| n-Butyl acetate (CAS 123-86-4)                 | Listed. |
| Xylene (CAS 1330-20-7)                         | Listed. |

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

|                             |         |
|-----------------------------|---------|
| Ethylbenzene (CAS 100-41-4) | Listed. |
|-----------------------------|---------|

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

|                             |                                     |
|-----------------------------|-------------------------------------|
| Ethylbenzene (CAS 100-41-4) | Listed: June 11, 2004 Carcinogenic. |
|-----------------------------|-------------------------------------|

US - New Jersey RTK - Substances: Listed substance

|  |         |
|--|---------|
| Ethylbenzene (CAS 100-41-4)                    | Listed. |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | Listed. |
| n-Butyl acetate (CAS 123-86-4)                 | Listed. |
| Xylene (CAS 1330-20-7)                         | Listed. |

US. Massachusetts RTK - Substance List

|  |         |
|--|---------|
| Ethylbenzene (CAS 100-41-4)                    | Listed. |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | Listed. |
| n-Butyl acetate (CAS 123-86-4)                 | Listed. |
| Xylene (CAS 1330-20-7)                         | Listed. |

US. New Jersey Worker and Community Right-to-Know Act

|  |         |
|--|---------|
| Ethylbenzene (CAS 100-41-4)                    | 500 LBS |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | 500 LBS |
| Xylene (CAS 1330-20-7)                         | 500 LBS |

US. Pennsylvania RTK - Hazardous Substances

|                                |         |
|--------------------------------|---------|
| Ethylbenzene (CAS 100-41-4)    | Listed. |
| n-Butyl acetate (CAS 123-86-4) | Listed. |
| Xylene (CAS 1330-20-7)         | Listed. |

## 16. Other Information

Recommended use

Coating.

HMIS® ratings

Health: 2\*  
Flammability: 3  
Physical hazard: 0

NFPA ratings

Health: 2  
Flammability: 3  
Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.