

**SAFETY DATA SHEET****A1423 BROWN**

Version Number 1.8  
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**SAFETY DATA SHEET****A1423 BROWN****Section 1. Identification**

**GHS product identifier** : A1423 BROWN  
**Chemical name** : Mixture  
**CAS number** : Mixture  
**Other means of identification** : FO00011328  
**Product type** : liquid

**Relevant identified uses of the substance or mixture and uses advised against**

**Product use** : Industrial applications. Plastics.

**Supplier's details** : **AVIENT CORPORATION**  
 33587 Walker Road, Avon Lake, OH 44012  
 1 (440) 930-1000 or 1 (844) 4AVIENT

**Emergency telephone number (with hours of operation)** : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

**Section 2. Hazards identification**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 2  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 CARCINOGENICITY - Category 2

**GHS label elements**

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**Hazard pictograms** : 

**Signal word** : Danger  
**Hazard statements** : Highly flammable liquid and vapor.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of causing cancer.

**Precautionary statements**

**Prevention** : Not applicable.  
: Obtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Wash thoroughly after handling.

**Response** : IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage** : Store in a well-ventilated place. Keep cool.  
**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : None known.  
**Hazards not otherwise classified** : None known.  
Not available.

**Section 3. Composition/information on ingredients**

**Substance/mixture** : Mixture  
**Chemical name** : Mixture  
**Other means of identification** : FO00011328

**CAS number/other identifiers**

| Ingredient name | % | CAS number |
|-----------------|---|------------|
|-----------------|---|------------|

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|  |               |            |
|--|---------------|------------|
| Methyl ethyl ketone                    | >= 25 - <= 40 | 78-93-3    |
| Furan, tetrahydro-                     | >= 25 - <= 37 | 109-99-9   |
| Bis(2,6-diisopropylphenyl)carbodiimide | >= 1 - <= 2.5 | 2162-74-5  |
| Titanium dioxide                       | > 0 - <= 0.3  | 13463-67-7 |
| Carbon black                           | > 0 - <= 0.3  | 1333-86-4  |

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**

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get

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medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Most important symptoms/effects, acute and delayed****Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

|  |
|--|
| <b>Section 5. Fire-fighting measures</b> |
|--|

**Extinguishing media**

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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- Specific hazards arising from the chemical** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-

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proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- |   |  |
|---|--|
| <b>Protective measures</b>  | <ul style="list-style-type: none"> <li>: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.</li> </ul> |
| <b>Advice on general occupational hygiene</b>                       | <ul style="list-style-type: none"> <li>: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</li> </ul>  |
| <b>Conditions for safe storage, including any incompatibilities</b> | <ul style="list-style-type: none"> <li>: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a well-ventilated place. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</li> </ul>   |

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**Section 8. Exposure controls/personal protection**

Control parameters

Occupational exposure limits

| Ingredient name                        | Exposure limits   |
|--|---|
| Methyl ethyl ketone                    | <p><b>OSHA PEL 1989 (1989-03-01)</b><br/>                     TWA 590 mg/m<sup>3</sup> 200 ppm<br/>                     STEL 885 mg/m<sup>3</sup> 300 ppm<br/> <b>OSHA PEL (1993-06-30)</b><br/>                     TWA 590 mg/m<sup>3</sup> 200 ppm<br/> <b>NIOSH REL (1994-06-01)</b><br/>                     TWA 590 mg/m<sup>3</sup> 200 ppm<br/>                     STEL 885 mg/m<sup>3</sup> 300 ppm<br/> <b>ACGIH TLV (1994-09-01)</b><br/>                     TWA 590 mg/m<sup>3</sup> 200 ppm<br/>                     STEL 885 mg/m<sup>3</sup> 300 ppm</p> |
| Furan, tetrahydro-                     | <p><b>OSHA PEL 1989 (1989-03-01)</b><br/>                     TWA 590 mg/m<sup>3</sup> 200 ppm<br/>                     STEL 735 mg/m<sup>3</sup> 250 ppm<br/> <b>OSHA PEL (1993-06-30)</b><br/>                     TWA 590 mg/m<sup>3</sup> 200 ppm<br/> <b>NIOSH REL (1994-06-01)</b><br/>                     TWA 590 mg/m<sup>3</sup> 200 ppm<br/>                     STEL 735 mg/m<sup>3</sup> 250 ppm<br/> <b>ACGIH TLV (2005-01-01) Absorbed through skin.</b><br/>                     TWA 50 ppm<br/>                     STEL 100 ppm</p>                     |
| Bis(2,6-diisopropylphenyl)carbodiimide | None.   |
| Titanium dioxide                       | <p><b>OSHA PEL 1989 (1989-03-01)</b><br/>                     TWA 10 mg/m<sup>3</sup> Form: Total dust<br/> <b>OSHA PEL (1993-06-30)</b><br/>                     TWA 15 mg/m<sup>3</sup> Form: Total dust<br/> <b>ACGIH TLV (1996-05-18)</b><br/>                     TWA 10 mg/m<sup>3</sup></p>  |
| Carbon black                           | <p><b>OSHA PEL 1989 (1989-03-01)</b><br/>                     TWA 3.5 mg/m<sup>3</sup><br/> <b>OSHA PEL (1993-06-30)</b></p>  |

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|  |   |
|--|---|
|  | TWA 3.5 mg/m <sup>3</sup><br><b>NIOSH REL (1994-06-01)</b><br>TWA 3.5 mg/m <sup>3</sup><br><b>NIOSH REL (1994-06-01)</b><br>TWA 0.1 mgPAH/m <sup>3</sup><br><b>ACGIH TLV (2010-12-06)</b><br>TWA 3 mg/m <sup>3</sup> Form: Inhalable fraction |
|--|---|

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves



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|                               |  |
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| <b>Body protection</b>        | : cannot be accurately estimated.<br>: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product., When there is a risk of ignition from static electricity, wear anti-static protective clothing., For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| <b>Other skin protection</b>  | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Respiratory protection</b> | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.   |

## Section 9. Physical and chemical properties

### Appearance

|   |  |
|---|--|
| <b>Physical state</b>                               | : liquid [liquid]  |
| <b>Color</b>  | : BROWN  |
| <b>Odor</b>   | : Not available.   |
| <b>Odor threshold</b>                               | : Not available.   |
| <b>pH</b>   | : Not available.   |
| <b>Melting point</b>                                | : Not available.   |
| <b>Boiling point</b>                                | : Not available.   |
| <b>Flash point</b>                                  | : Closed cup: -9 °C (16 °F)                                    |
| <b>Burning time</b>                                 | : Not available.   |
| <b>Burning rate</b>                                 | : Not available.   |
| <b>Evaporation rate</b>                             | : Not available.   |
| <b>Flammability (solid, gas)</b>                    | : Not available.   |
| <b>Lower and upper explosive (flammable) limits</b> | : <b>Lower:</b> Not available.<br><b>Upper:</b> Not available. |
| <b>Vapor pressure</b>                               | : Not available.   |
| <b>Vapor density</b>                                | : Not available.   |
| <b>Relative density</b>                             | : Not available.   |
| <b>Solubility</b>                                   | : Not available.   |
| <b>Solubility in water</b>                          | : Not available.   |
| <b>Partition coefficient: n-octanol/water</b>       | : Not available.   |
| <b>Auto-ignition temperature</b>                    | : Not available.   |
| <b>Decomposition temperature</b>                    | : Not available.   |
| <b>SADT</b>   | : Not available.   |
| <b>Viscosity</b>                                    | : <b>Dynamic:</b> Not available.                               |

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**Kinematic:** Not available.

**Aerosol product**

**Heat of combustion** : Not available.  
**Ignition distance** : Not available.  
**Enclosed space ignition - Time equivalent** : Not available.  
**Enclosed space ignition - Deflagration density** : Not available.  
**Flame height** : Not available.  
**Flame duration** : Not available.

**Section 10. Stability and reactivity**

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.  
**Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).  
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.  
**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.  
**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials  
**Hazardous decomposition products** : 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 |
|---|-----------------|------------|-------------|----------|
| 2-Butanone  |                 |            |             |          |
|   | LD50 Oral       | Rat        | 2,737 mg/kg | -        |
|   | LD50 Dermal     | Rabbit     | 6,480 mg/kg | -        |
| Furan, tetrahydro-  |                 |            |             |          |
|   | LD50 Oral       | Rat        | 1,650 mg/kg | -        |
| Benzenamine, N,N'-methanetetraylbis[2,6-bis(1-methylethyl)- |                 |            |             |          |
|   | LD50 Oral       | Rat        | 200 mg/kg   | -        |
| Titanium oxide  |                 |            |             |          |
|   | LC50 Inhalation | Rat - Male | 6.82 Mg/l   | 4 h      |

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|              |                 |        |               |   |
|--------------|-----------------|--------|---------------|---|
|              | Dusts and mists |        |               |   |
|              | LD50 Dermal     | Rabbit | > 5,000 mg/kg | - |
| Carbon black |                 |        |               |   |
|              | LD50 Oral       | Rat    | 15,400 mg/kg  | - |

**Conclusion/Summary** : Mixture.Not fully tested.

**Irritation/Corrosion**

| Product/ingredient name | Result                   | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|----------|-------------|
| 2-Butanone              | Skin - Mild irritant     | Rabbit  | -     | 24 hrs   | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hrs   | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hrs   | -           |
| Titanium oxide          | Skin - Mild irritant     | Human   | -     | 72 hrs   | -           |

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Eyes** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Sensitization**

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Classification**

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| Furan, tetrahydro-      | -    | 2B   | -   |
| Titanium oxide          | -    | 2B   | -   |
| Carbon black            | -    | 2B   | -   |

**Reproductive toxicity**

**Conclusion/Summary** : Mixture.Not fully tested.

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**Teratogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation.  
**Ingestion** : No known significant effects or critical hazards.

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

**Eye contact** : Adverse symptoms may include the following: pain or irritation, watering, redness  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following: irritation, redness  
**Ingestion** : No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Potential chronic health effects**

**Conclusion/Summary** : Mixture.Not fully tested.

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- General** : No known significant effects or critical hazards.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- 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

| Product/ingredient name                                     | Oral          | Dermal      | Inhalation (gases) | Inhalation (vapors) | Inhalation (dusts and mists) |
|---|---------------|-------------|--------------------|---------------------|------------------------------|
| A1423 BROWN   | 2,632.9 mg/kg | N/A         | N/A                | N/A                 | N/A                          |
| 2-Butanone  | 2,737 mg/kg   | 6,480 mg/kg | N/A                | N/A                 | N/A                          |
| Furan, tetrahydro-  | 1,650 mg/kg   | N/A         | N/A                | N/A                 | N/A                          |
| Benzenamine, N,N'-methanetetraylbis[2,6-bis(1-methylethyl)- | 200 mg/kg     | N/A         | N/A                | N/A                 | N/A                          |
| Titanium oxide  | N/A           | N/A         | N/A                | N/A                 | 6.82 Mg/l                    |
| Carbon black  | 15,400 mg/kg  | N/A         | N/A                | N/A                 | N/A                          |

- Other information** : This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                            | Species                      | Exposure |
|-------------------------|-----------------------------------|------------------------------|----------|
| 2-Butanone              | Acute LC50 3,220 Mg/l Fresh water | Fish - Pimephales promelas   | 96 h     |
|                         | Acute EC50 5.091 Mg/l Fresh water | Daphnia - Daphnia magna      | 48 h     |
|                         | Acute EC50 > 500 Mg/l Marine      | Algae - Skeletonema costatum | 96 h     |

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|                    |                                      |                                  |      |
|--------------------|--------------------------------------|----------------------------------|------|
|                    | water                                |                                  |      |
| Furan, tetrahydro- |                                      |                                  |      |
|                    | Acute LC50 2,160 Mg/l Fresh water    | Fish - Pimephales promelas       | 96 h |
|                    | Chronic NOEC 367 Mg/l Fresh water    | Fish - Pimephales promelas       | 33 d |
| Titanium oxide     |                                      |                                  |      |
|                    | Acute LC50 > 1,000 Mg/l Marine water | Fish - Fundulus heteroclitus     | 96 h |
|                    | Acute LC50 3 Mg/l Fresh water        | Crustaceans - Ceriodaphnia dubia | 48 h |
|                    | Acute LC50 6.5 Mg/l Fresh water      | Daphnia - Daphnia pulex          | 48 h |
| Carbon black       |                                      |                                  |      |
|                    | Acute EC50 37.563 Mg/l Fresh water   | Daphnia - Daphnia magna          | 48 h |

**Conclusion/Summary** : Not available.

**Persistence and degradability**

**Conclusion/Summary** : Not available.

**Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| 2-Butanone              | 0.29   | -   | low       |
| Furan, tetrahydro-      | 0.45   | -   | low       |

**Mobility in soil**

**Soil/water partition coefficient (KOC)** : 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. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable

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products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**United States - RCRA Acute hazardous waste "P" List:** Not listed

**United States - RCRA Toxic hazardous waste "U" List:** Listed

| Ingredient          | CAS #    | Status | Reference number |
|---------------------|----------|--------|------------------|
| Methyl ethyl ketone | 78-93-3  | Listed |                  |
| Furan, tetrahydro-  | 109-99-9 | Listed |                  |

**Section 14. Transport information**

U.S.DOT 49CFR  
 Ground/Air/Water  
 Proper Shipping Name: Coating solution  
 Technical Name:  
 Hazard Class / Division 3  
 UN Number UN1139  
 Packing Group II  
 Label Required 3

| Hazardous Substance | RQ for Mixture/Product |
|---------------------|------------------------|
| tetrahydrofuran     |                        |
|                     |                        |

International Air ICAO/IATA Consult mode specific transport rules

International Water IMO/IMDG Consult mode specific transport rules

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|   |
|---|
| <b>Section 15. Regulatory information</b> |
|---|

- U.S. Federal regulations**
- United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
  - United States - TSCA 4(a) - Final Test Rules:** Not listed
  - United States - TSCA 4(a) - ITC Priority list:** Not listed
  - United States - TSCA 4(a) - Proposed test rules:** Not listed
  - United States - TSCA 4(f) - Priority risk review:** Not listed
  - United States - TSCA 5(a)2 - Final significant new use rules:** Not listed
  - United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed
  - United States - TSCA 5(e) - Substances consent order:** Not listed
  - United States - TSCA 6 - Final risk management:** Not listed
  - United States - TSCA 6 - Proposed risk management:** Not listed
  - United States - TSCA 8(a) - Chemical risk rules:** Not listed
  - United States - TSCA 8(a) - Dioxin/Furane precursor:** Not listed
  - United States - TSCA 8(a) - Chemical Data Reporting (CDR):** Not determined
  - United States - TSCA 8(a) - Preliminary assessment report (PAIR):** Listed **Furan, tetrahydro-2,6-Diisopropylphenyl isocyanate**
  - United States - TSCA 8(c) - Significant adverse reaction (SAR):** Not listed
  - United States - TSCA 8(d) - Health and safety studies:** Not listed
  - United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Listed **Benzene, methyl-**
  - United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Listed
  - United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances:** Not listed
  - United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:** Not listed
  - United States - Department of commerce - Precursor chemical:** Not listed
- 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** : Not listed



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**Chemicals)**  
**DEA List II Chemicals (Essential** : **Listed**  
**Chemicals)**

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

| Chemical Name       | CAS-No.  | RQ for component                                   |
|---------------------|----------|--|
| Furan, tetrahydro-  | 109-99-9 | 1,000 lb(s)<br>454 kg                              |
| Methyl ethyl ketone | 78-93-3  | 5,000 lb(s)<br>2,270 kg<br>2,270 kg<br>5,000 lb(s) |

**SARA 311/312**

**Classification** : **FLAMMABLE LIQUIDS - Category 2**  
**SKIN IRRITATION - Category 2**  
**EYE IRRITATION - Category 2A**  
**CARCINOGENICITY - Category 2**

**Composition/information on ingredients**

| Name  | %             | Classification   |
|---|---------------|--|
| 2-Butanone  | >= 25 - <= 40 | FLAMMABLE LIQUIDS - Category 2<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A       |
| Furan, tetrahydro-  | >= 25 - <= 37 | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY - oral - Category 4<br>CARCINOGENICITY - Category 2 |
| Benzenamine, N,N'-methanetetraylbis[2,6-bis(1-methylethyl)- | >= 1 - <= 2.5 | ACUTE TOXICITY - oral - Category 3   |
| Titanium oxide  | > 0 - <= 0.3  | CARCINOGENICITY - Category 2   |
| Carbon black  | > 0 - <= 0.3  | CARCINOGENICITY - Category 2   |

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Not applicable.

#### State regulations

- Massachusetts** : None of the components are listed.
- New York** : The following components are listed:  
Methyl ethyl ketone  
Furan, tetrahydro-
- New Jersey** : The following components are listed:  
Methyl ethyl ketone  
Furan, tetrahydro-  
Titanium dioxide  
Carbon black
- Pennsylvania** : The following components are listed:  
Methyl ethyl ketone  
  
Furan, tetrahydro-  
  
Titanium dioxide  
  
Carbon black

#### California Prop. 65

 **WARNING:** This product can expose you to chemicals including Titanium dioxide, which are known to the State of California to cause cancer, and Benzene, methyl-, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name  | No significant risk level | Maximum acceptable dosage level |
|------------------|---------------------------|---------------------------------|
| Titanium dioxide | -                         | -                               |
| Benzene, methyl- | -                         | Yes.                            |
| Carbon black     | -                         | -                               |

**United States inventory (TSCA 8b)** : All components are active or exempted.

**Canada inventory** : All components are listed or exempted.

#### International regulations

#### Inventory list

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Europe inventory** : All components are listed or exempted.
- Japan** : Not determined.
- New Zealand** : All components are listed or exempted.

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- Philippines : All components are listed or exempted.
- Republic of Korea : All components are listed or exempted.
- Taiwan : All components are listed or exempted.
- Turkey : Not determined.
- United States : All components are active or exempted.

**Section 16. Other information**

**Hazardous Material Information System (U.S.A.)**

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 3 |
| Physical hazards |   | 0 |
|                  |   |   |

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.**

**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

History

- Date of printing : 06/15/2021
- Date of issue/Date of revision : 06/14/2021
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- Version : 1.8

**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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- : UN = United Nations

- References : Not available.

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**



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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. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.